

# Standard and Utility Parts Catalog

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## GENERAL INFORMATION

For ease in locating and identifying parts this Standard and Utility Parts Catalog has been divided into three sections as follows —

|                    |   |
|--------------------|---|
| Pages 1 thru 19    | Illustrations and sizes of standard size hardware.  |
| Pages 20 thru 280  | Illustrations and sizes of special bolts, screws, etc. Also utility parts.  |
| Pages 281 thru 300 | Mazda illustrations and sizes of special bolts, screws, etc. Also utility parts.  |
| Pages 301 thru 339 | Locator Code Index arranged in order by locator code with related part number, quantity in unit pack and page number of this catalog. |
| Pages 341 thru 379 | Part Number Index arranged in order by part number with related locator code, quantity in unit pack and page number of this catalog.  |
| Pages 381 thru 395 | Dimensions for Non-Serviced Standard Parts Illustrated in the Master Parts Catalogs.  |

Each standard & utility part in the entire Ford service system has been assigned a "locator number or code," to provide a quick and convenient point of reference between the Parts Order Pad, the Standard and Utility Parts Catalog, and the storage bin or cup as shown on the bin label and each package received for stock.

**Illustrated parts are arranged in type number sequence, the smallest type being listed first. If no type number is listed, then illustrated parts are listed in diameter sequence, the smallest diameter size being listed first. Other pertinent information such as threads, length, etc., have also been included.**

★ Symbol indicates part is not supplied for service

## ABBREVIATIONS

|        |            |       |                 |          |                  |       |                        |
|--------|------------|-------|-----------------|----------|------------------|-------|------------------------|
| assy.  | assembly   | fill. | fillister       | R.H.     | right hand       | P/C   | property class         |
| blk.   | black      | hard. | hardened        | l/washer | lockwasher       | spec. | special                |
| cad.   | cadmium    | hd.   | head            | No.      | number           | sq.   | square                 |
| dia.   | diameter   | hex.  | hexagon         | O.D.     | outside diameter | std.  | standard               |
| dichr. | dichromate | I.D.  | inside diameter | L.H.     | left hand        | UBS   | unified bearing stress |

## FINISH OF STANDARD PARTS

The "S" suffix on numbers covering Standard Parts represents the finish of the part as shown by the following list:

| SUFFIX | FINISH                                 | SUFFIX | FINISH  | SUFFIX | FINISH  |
|--------|--|--------|---|--------|---|
| S      | Plain                                  | S51    | Zinc plate plus iridescent chromate   | S302   | BLACK ORGANIC CORROSION PROTECTION COATINGS — Without supplementary lubrication (Short Term Corrosion Protection).  |
| S-M    | Nonelectrolytic plating                | S52    | Phosphate and oil (Blue)  |        |   |
| S-X    | Wax sealer                             | S53    | Baked white organic coating   | S303   | BLACK ORGANIC CORROSION PROTECTION COATING (Long Term Corrosion Protection).  |
| S2     | Phosphate and lubricant                | S54    | Cadmium/zinc plate and chromate   |        |   |
| S3     | Black paint                            | S55    | Cadmium plate and chromate, organic   | S304   | ZINC PLATE — Clear chromate passivated without supplementary lubrication (Medium Term Corrosion Protection) — This finish is a zinc electroplating or mechanical plating to WSD-M1P85-A2 followed by a clear chromate treatment to WSD-M10P10-A1. <b>NOTE:</b> Parts shall not be supplied in an oiled condition. |
| S4     | Phosphate and oil                      | S56    | Black with corrosion protection   |        |   |
| S5     | Copper plate                           | S57    | Zinc plate and chromate, organic  | S304M  | ZINC PLATE — Clear chromate passivated without supplementary lubricant (Medium Term Corrosion protection).  |
| S6     | Nickel plate                           | S58    | Phosphate and dry lubricant   | S305   | ENAMEL — BLACK  |
| S7     | Cadmium plate                          | S70    | Zinc plate-bright chromate  | S306   | BLACK ORGANIC CORROSION PROTECTION COATING (Long Term Corrosion Protection).  |
| S8     | Zinc plate                             | S71    | Zinc plate and chromate   | S307   | BLACK ORGANIC CORROSION PROTECTION COATING (Long Term Corrosion Protection).  |
| S8B    | Zinc plate                             | S72    | Zinc plate and chromate and lubricant   | S309   | ZINC PLATE — Chromate Passivated (Medium Term Corrosion Protection). This finish is a zinc electroplating or mechanical plating.  |
| S9     | Zinc plate — bright chromate           | S73    | Zinc plate — black  |        |   |
| S10    | Tinned                                 | S74    | Zinc plate — matt black   | S309M  | The color of the parts when received by Ford shall be readily identifiable and may vary between gold and bronze.  |
| S11    | Copper plate                           | S75    | Chromium plated   | S309U  | ZINC PLATE — CHROMATE PASSIVATED: This finish is an electrolytic zinc plating   |
| S12    | Lacquer to match trim                  | S76    | Phosphate coat plus lubricant   |        |   |
| S13    | Chrome plated                          | S78    | Chromium plate  | S310   | Recommended Usage: General purpose zinc plate for the majority of fasteners of PC 10.9 or equivalent and below where lubrication is detrimental, e.g., in contact with plastics.  |
| S14    | Nickel plate — Butler finish           | S79    | Zinc plate and chromate   |        |   |
| S15    | Oxidized                               | S80    | Zinc plate and chromate   | S401   | Black organic corrosion protective coating (long term corrosion protection). These finishes are black organic protective coatings, they are heat cured from organic media.  |
| S16    | Lead plate                             | S81    | Enamel-black or Olive drab phosphate  |        |   |
| S18    | Case hardened                          | S82    | Zinc plate  |        |   |
| S20    | Cement coat                            | S91    | O-Ring material   |        |   |
| S21    | lacquer for identification             | S92    | O-Ring material   |        |   |
| S23    | Rustless steel-head polished           | S93    | O-Ring material   |        |   |
| S26    | Cadmium or zinc plate and enamel       | S94    | O-Ring material   |        |   |
| S27    | Screw Blank                            | S95    | O-Ring material   |        |   |
| S28    | Sterile coating                        | S96    | O-Ring material   |        |   |
| S32    | Enamel — black or olive drab           | S100   | Special   |        |   |
| S34    | Case hardened cadmium finish           | S200   | Special   |        |   |
| S35    | Zinc coat                              | S-M    | Nonelectrolytic plating   |        |   |
| S36    | Zinc plate and Dichromate              | S-X    | Wax sealer  |        |   |
| S37    | Chrome plate                           | S300   | PLAIN — No supplementary finish required other than the finish considered the normal result of manufacturing processes for the material and product involved. |        |   |
| S38    | Raven finish                           |        |   |        |   |
| S39    | Cadmium plate                          |        |   |        |   |
| S40    | Zinc plate                             |        |   |        |   |
| S41    | Pre-galvanized coat                    |        |   |        |   |
| S42    | Cadmium plate — Black                  |        |   |        |   |
| S43    | Zinc plate plus chromate               |        |   |        |   |
| S43B   | Zinc plate plus chromate — black       | S301   | SILVER/SILVER GREY CORROSION PROTECTION COATING — With a self lubrication system constituent (Long Term Corrosion Protection)                                 |        |   |
| S45    | Chrome plate — stainless steel         |        |   |        |   |
| S46    | Black phenolic                         |        |   |        |   |
| S47    | Chromium plate                         |        |   |        |   |
| S48M   | Cadmium/tin plate                      |        |   |        |   |
| S49    | Epoxy — Black                          |        |   |        |   |
| S50    | Cadmium plate plus iridescent chromate |        |   |        |   |

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## FINISH OF STANDARD PARTS

The "S" suffix on numbers covering Standard Parts represents the finish of the part as shown by the following list:

| SUFFIX | FINISH  | SUFFIX | FINISH   | SUFFIX | FINISH   |
|--------|---|--------|--|--------|--|
| S403   | COPPER PLATE: This finish is an electroplated or mechanically plated copper coating.  | S426   | CORROSION PROTECTION COATING, ALUMINUM ORGANIC TYPE: This finish is an organic coating over an inorganic zinc rich basecoat.   | S436   | BLACK ORGANIC CORROSION PROTECTIVE COATING: This is a black organic corrosion protective coating applied over a zinc phosphate layer.  |
|        | Color: Copper   |        | Color: Gray/Silver   |        | Color: Black   |
|        | Recommended Usage: For use on welded parts or for identification purposes.  |        | Recommended Usage: This finish is designed for fasteners requiring extended corrosion protection. Not recommended for any internally driven fasteners or nuts, due to possible recess fill. Not recommended for automated feed.                          |        | Recommended Usage: A direct replacement for S428. Intended for general fasteners and small parts in chassis or exterior applications of low visibility. Not intended for body interior applications, high temperature applications, applications in direct contact with plastic, applications directly exposed to solvents, or areas of high visibility. |
| S407   | ORGANIC COAT: This finish is a colored corrosion protective coating for utility parts.  |        |  |        |  |
|        | Color: The color shall be as stated on the relevant Utility Part Drawing.   | S427   | CORROSION PROTECTIVE COATING, ALUMINUM ORGANIC TYPE: This finish is an organic coating applied over an electrolytic zinc base coat.  | S437   | ELECTROLYTIC ZINC PLATE, TRIVALENT CHROMATE, LEACHED AND SEALED, INTEGRAL TORQUE CONTROL LUBRICANT: This finish is an electrolytic plating of zinc, followed by a trivalent chromate conversion, leached to a silver-white color in a sealer.  |
|        | Recommended Usage: Part identification for non-threaded, externally threaded, or driven fasteners. Not recommended for use with recessed drives or nuts.      |        | Color: Gray/Silver   |        | Color: Silver-white  |
| S408M  | MECHANICAL ZINC PLATE PLUS YELLOW CHROMATE PLUS DRY FILM LUBRICANT  |        | Recommended Usage: Most threaded fasteners of PC 10.9 or equivalent and below. This finish was originally released to provide corrosion protection for clips and tube nuts used to secure fuel, brake, power steering and transmission oil cooler lines. |        | Recommended Usage: Zinc plate finish for fasteners of Property Class 10.9 or equivalent and below which contact magnesium or aluminum components. Not recommended for severe abrasion conditions or where chip resistance is required.   |
|        | Color: Yellow   |        |  |        |  |
|        | Recommended Usage: This finish was originally released for seat belt thread rollers.  | S430   | PHOSPHATE AND LUBRICANT: This finish consists of a zinc iron or manganese iron phosphate coating plus a specified approved lubricant.  |        |  |
| S409M  | MECHANICAL ZINC PLATE PLUS BLACK CHROMATE PLUS DRY FILM LUBRICANT   |        | Color: Black   | S437M  | MECHANICAL ZINC PLATE, TRIVALENT CHROMATE, LEACHED AND SEALED, INTEGRAL TORQUE CONTROL LUBRICANT: This finish is a mechanical plating of zinc, followed by a trivalent chromate conversion, leached to a silver-white color in a sealer.   |
|        | Color: Black  |        | Recommended Usage: This finish was originally released for internal engine applications for the control of torque/clamping force performance.  |        | Color: Silver-white  |
|        | Recommended Usage: This finish was originally released for seat belt thread rollers.  | S431   | METALLIC GRAY CORROSION PROTECTIVE COATING: This finish is a water dilutable aluminum filled chromate/phosphate compound.  |        | Recommended Usage: Zinc plate finish for fasteners of Property Class 10.9 or equivalent, which contact magnesium or aluminum components. Not recommended for severe abrasion conditions or where chip resistance is required.  |
| S413   | TIN PLATE: This finish is an electrodeposited tin plate.  |        | Color: Gray  |        |  |
|        | Color: Silver   |        | Recommended Usage: This finish was originally released for exhaust manifold fasteners.   |        |  |
|        | Recommended Usage: Use for electrical component applications. Not recommended for parts being baked after electroplating.                                     | S432   | ELECTROLESS NICKEL: This finish is an electroless nickel-phosphorus alloy plating for metallic   |        |  |
| S414   | ZINC PLATE PLUS OLIVE DRAB CHROMATE PASSIVATION   |        | Color: Silver metallic   |        |  |
|        | Color: Silver/Olive Drab  |        | Recommended Usage: This finish was originally released for EGR pipe nuts.  |        |  |
|        | Recommended Usage: Same type applications as S309 but has greater corrosion resistance. Can also be used for part identification.                             | S434   | ZINC PLATE: This finish is an electroplated coating of zinc with no subsequent chromate  |        |  |
| S415   | MECHANICAL ZINC PLATE PLUS MECHANICAL TIN PLATE   |        | Color: Silver  |        |  |
|        | Color: Silver   |        | Recommended Usage: This finish was originally released for small semi-tubular rivets (M3.5 and smaller). It may also be used as a low cost finish for fasteners not subject to corrosive environments.   |        |  |
|        | Recommended Usage: This finish was originally released for use in grounding.  | S435   | ZINC PLATE, CHROMATE, BLACK ORGANIC: This finish is an electrolytic plating of zinc, followed by a black chromate and organic coating on steel surfaces.   |        |  |
| S417   | ANODIZING - BLACK: This finish is a black anodize over aluminum or aluminum alloy.  |        | Color: Black   |        |  |
|        | Color: Black  |        | Recommended Usage: Due to hydraulic lock up in processing, parts with flat surfaces, which may be mated, i.e., flat washers, hex flange nuts, etc. should not use this finish.   |        |  |
|        | Recommended Usage: General usage for aluminum fasteners, such as blind rivets. Not for use where electrical conductivity is required of finish                |        |  |        |  |
| S421   | ELECTROLYTIC ZINC PLATE PLUS BLACK CHROMATE CONVERSION PLUS LUBRICANT   |        |  |        |  |
|        | Color: Silver/Black   |        |  |        |  |
|        | Recommended Usage: General purpose black finish for fasteners of PC 10.9 or equivalent and below.   |        |  |        |  |
| S424   | BLACK ORGANIC CORROSION PROTECTION COATING: This finish is a black organic  |        |  |        |  |
|        | Lubricant: None   |        |  |        |  |
|        | Color: Black  |        |  |        |  |
|        | Recommended Usage: This finish was originally released for small screws for passenger compartment applications where recess and/or thread fill was a concern. |        |  |        |  |

## DECIMAL EQUIVALENTS OF PARTS OF AN INCH

|                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|
| 1/64 ..... <b>.015625</b>  | 17/64 ..... <b>.265625</b> | 33/64 ..... <b>.515625</b> | 49/64 ..... <b>.765625</b> |
| 1/32 ..... <b>.03125</b>   | 9/32 ..... <b>.28125</b>   | 17/32 ..... <b>.53125</b>  | 25/32 ..... <b>.78125</b>  |
| 3/64 ..... <b>.046875</b>  | 19/64 ..... <b>.296875</b> | 35/64 ..... <b>.546875</b> | 51/64 ..... <b>.796875</b> |
| 1/16 ..... <b>.0625</b>    | 5/16 ..... <b>.3125</b>    | 9/16 ..... <b>.5625</b>    | 13/16 ..... <b>.8125</b>   |
| 5/64 ..... <b>.078125</b>  | 21/64 ..... <b>.328125</b> | 37/64 ..... <b>.578125</b> | 53/64 ..... <b>.828125</b> |
| 3/32 ..... <b>.09375</b>   | 11/32 ..... <b>.34375</b>  | 19/32 ..... <b>.59375</b>  | 27/32 ..... <b>.84375</b>  |
| 7/64 ..... <b>.109375</b>  | 23/64 ..... <b>.359375</b> | 39/64 ..... <b>.609375</b> | 55/64 ..... <b>.859375</b> |
| 1/8 ..... <b>.125</b>      | 3/8 ..... <b>.375</b>      | 5/8 ..... <b>.625</b>      | 7/8 ..... <b>.875</b>      |
| 9/64 ..... <b>.140625</b>  | 25/64 ..... <b>.390625</b> | 41/64 ..... <b>.640625</b> | 57/64 ..... <b>.890625</b> |
| 5/32 ..... <b>.15625</b>   | 13/32 ..... <b>.40625</b>  | 21/32 ..... <b>.65625</b>  | 29/32 ..... <b>.90625</b>  |
| 11/64 ..... <b>.171875</b> | 27/64 ..... <b>.421875</b> | 43/64 ..... <b>.671875</b> | 59/64 ..... <b>.921875</b> |
| 3/16 ..... <b>.1875</b>    | 7/16 ..... <b>.4375</b>    | 11/16 ..... <b>.6875</b>   | 15/16 ..... <b>.9375</b>   |
| 13/64 ..... <b>.203125</b> | 29/64 ..... <b>.453125</b> | 45/64 ..... <b>.703125</b> | 61/64 ..... <b>.953125</b> |
| 7/32 ..... <b>.21875</b>   | 15/32 ..... <b>.46875</b>  | 23/32 ..... <b>.71875</b>  | 31/32 ..... <b>.96875</b>  |
| 15/64 ..... <b>.234375</b> | 31/64 ..... <b>.484375</b> | 47/64 ..... <b>.734375</b> | 63/64 ..... <b>.984375</b> |
| 1/4 ..... <b>.25</b>       | 1/2 ..... <b>.5</b>        | 3/4 ..... <b>.75</b>       | 1 ..... <b>1.</b>          |

| TABLE OF SCREW THREADS         |                  |                              |                                     | TABLE OF DIAMETERS<br>for<br>NUMBER SIZE BOLTS AND<br>WOOD SCREWS |                                |                                       |  |  |  |  |  |
|--------------------------------|------------------|------------------------------|-------------------------------------|---|--------------------------------|---------------------------------------|--|--|--|--|--|
| U.S.S.<br>Coarse Thread Series |                  | S.A.E.<br>Fine Thread Series |                                     |   |                                |                                       |  |  |  |  |  |
| Bolt Size                      | Thread           | Bolt Size                    | Thread                              |   |                                |                                       |  |  |  |  |  |
| 1                              | 64               | 1                            | 72                                  |   |                                |                                       |  |  |  |  |  |
| 2                              | 56               | 2                            | 64                                  | Size<br>No.   | Maximum<br>Decimal<br>Diameter | Approximate<br>Fractional<br>Diameter |  |  |  |  |  |
| 3                              | 48               | 3                            | 56                                  |   |                                |                                       |  |  |  |  |  |
| 4                              | 40               | 4                            | 48                                  |   |                                |                                       |  |  |  |  |  |
| 5                              | 40               | 5                            | 44                                  |   |                                |                                       |  |  |  |  |  |
| 6                              | 32               | 6                            | 40                                  | 0<br>1<br>2<br>3  | .060<br>.073<br>.086<br>.099   | 1/16<br>5/64<br>3/32<br>7/64 minus    |  |  |  |  |  |
| 8                              | 32               | 8                            | 36                                  |   |                                |                                       |  |  |  |  |  |
| 8                              | 18               | 10                           | 32                                  |   |                                |                                       |  |  |  |  |  |
| 10                             | 24               | 12                           | 28                                  |   |                                |                                       |  |  |  |  |  |
| 12                             | 24               |                              |                                     | 4   | .112<br>.125<br>.138<br>.164   | 7/64 plus<br>1/8<br>9/64<br>5/32      |  |  |  |  |  |
| 1/4                            | 20               | 1/4                          | 28                                  |   |                                |                                       |  |  |  |  |  |
| 5/16                           | 18               | 5/16                         | 24                                  |   |                                |                                       |  |  |  |  |  |
| 3/8                            | 16               | 3/8                          | 24                                  |   |                                |                                       |  |  |  |  |  |
| 7/16                           | 14               | 7/16                         | 20                                  | 10<br>12<br>14  | .190<br>.216<br>.242           | 3/16<br>7/32<br>1/4                   |  |  |  |  |  |
| 1/2                            | 13               | 1/2                          | 20                                  |   |                                |                                       |  |  |  |  |  |
| 9/16                           | 12               | 9/16                         | 18                                  |   |                                |                                       |  |  |  |  |  |
| 5/8                            | 11               | 5/8                          | 18                                  |   |                                |                                       |  |  |  |  |  |
| 3/4                            | 10               | 3/4                          | 16                                  | TABLE OF DIAMETERS<br>for<br>SHEET METAL SCREWS                   |                                |                                       |  |  |  |  |  |
| 7/8                            | 9                | 7/8                          | 14                                  |   |                                |                                       |  |  |  |  |  |
| 1                              | 8                | 1                            | 14                                  |   |                                |                                       |  |  |  |  |  |
| 1 1/8                          | 7                | 1 1/8                        | 12                                  |   |                                |                                       |  |  |  |  |  |
| 1 1/4                          | 7                | 1 1/4                        | 12                                  | FINE THREADS  |                                |                                       |  |  |  |  |  |
| 1 1/2                          | 6                | 1 1/2                        | 12                                  |   |                                |                                       |  |  |  |  |  |
| TABLE OF PIPE THREADS          |                  |                              |                                     | TABLE OF DIAMETERS<br>for<br>NUMBER SIZE BOLTS AND<br>WOOD SCREWS |                                |                                       |  |  |  |  |  |
| Pipe Size                      | Threads Per Inch | Outside Diameter             | Approximate Fractional Outside Dia. |   |                                |                                       |  |  |  |  |  |
| 1/16                           | 27               | .312                         | 5/16                                |   |                                |                                       |  |  |  |  |  |
| 1/8                            | 27               | .405                         | 13/32                               |   |                                |                                       |  |  |  |  |  |
| 1/4                            | 18               | .540                         | 35/64                               | Size  | Maximum<br>Decimal<br>Diameter | Approximate<br>Fractional<br>Diameter |  |  |  |  |  |
| 3/8                            | 18               | .675                         | 43/64                               |   |                                |                                       |  |  |  |  |  |
| 1/2                            | 14               | .840                         | 27/32                               |   |                                |                                       |  |  |  |  |  |
| 3/4                            | 14               | 1.050                        | 1 3/64                              |   |                                |                                       |  |  |  |  |  |
| 1                              | 11 1/2           | 1.315                        | 1 5/16                              | 4-40<br>6-32<br>8-32  | .111<br>.137<br>.163           | 7/64<br>9/64<br>5/32                  |  |  |  |  |  |
| 1 1/4                          | 11 1/2           | 1.660                        | 1 29/32                             |   |                                |                                       |  |  |  |  |  |
| 1 1/2                          | 11 1/2           | 1.900                        | 1 29/32                             |   |                                |                                       |  |  |  |  |  |
| 2                              | 11 1/2           | 2.375                        | 2 3/8                               |   |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     | COARSE THREADS  |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     |   |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     |   |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     |   |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     | 4   | .112<br>.128<br>.138<br>.155   | 7/64<br>1/8<br>9/64<br>5/32           |  |  |  |  |  |
|                                |                  |                              |                                     | 5   |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     | 6   |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     | 7   |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     | 8   | .165<br>.191<br>.218<br>.251   | 11/64<br>3/16<br>7/32<br>1/4          |  |  |  |  |  |
|                                |                  |                              |                                     | 10  |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     | 12  |                                |                                       |  |  |  |  |  |
|                                |                  |                              |                                     | 14  |                                |                                       |  |  |  |  |  |

## INCHES and MILLIMETERS CONVERSION CHART

## MILLIMETERS TO DECIMAL (inches) EQUIVALENT

| MM = DECIMAL<br>(Inches) | MM = DECIMAL<br>(Inches) | MM = DECIMAL<br>(Inches) | MM = DECIMAL<br>(Inches) | MM = DECIMAL<br>(Inches) | MM = DECIMAL<br>(Inches) |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 .039                   | 21 .827                  | 41 1.614                 | 61 2.402                 | 81 3.189                 | 125 4.921                |
| 2 .079                   | 22 .866                  | 42 1.654                 | 62 2.441                 | 82 3.228                 | 150 5.906                |
| 3 .118                   | 23 .906                  | 43 1.693                 | 63 2.480                 | 83 3.268                 | 175 6.890                |
| 4 .157                   | 24 .945                  | 44 1.732                 | 64 2.520                 | 84 3.307                 |                          |
| 5 .197                   | 25 .984                  | 45 1.772                 | 65 2.559                 | 85 3.346                 |                          |
|                          |                          |                          |                          |                          |                          |
| 6 .236                   | 26 1.024                 | 46 1.811                 | 66 2.598                 | 86 3.386                 | 200 7.874                |
| 7 .276                   | 27 1.063                 | 47 1.850                 | 67 2.638                 | 87 3.425                 | 225 8.858                |
| 8 .315                   | 28 1.102                 | 48 1.890                 | 68 2.677                 | 88 3.465                 | 250 9.843                |
| 9 .354                   | 29 1.142                 | 49 1.929                 | 69 2.717                 | 89 3.504                 | 275 10.827               |
| 10 .394                  | 30 1.181                 | 50 1.969                 | 70 2.756                 | 90 3.543                 |                          |
|                          |                          |                          |                          |                          |                          |
| 11 .433                  | 31 1.220                 | 51 2.008                 | 71 2.795                 | 91 3.583                 | 300 11.811               |
| 12 .472                  | 32 1.260                 | 52 2.047                 | 72 2.835                 | 92 3.622                 | 325 12.795               |
| 13 .512                  | 33 1.299                 | 53 2.087                 | 73 2.874                 | 93 3.661                 | 350 13.780               |
| 14 .551                  | 34 1.339                 | 54 2.126                 | 74 2.913                 | 94 3.701                 | 375 14.764               |
| 15 .591                  | 35 1.378                 | 55 2.165                 | 75 2.953                 | 95 3.740                 |                          |
|                          |                          |                          |                          |                          |                          |
| 16 .630                  | 36 1.417                 | 56 2.205                 | 76 2.992                 | 96 3.780                 | 400 15.748               |
| 17 .669                  | 37 1.457                 | 57 2.244                 | 77 3.031                 | 97 3.819                 |                          |
| 18 .709                  | 38 1.496                 | 58 2.283                 | 78 3.071                 | 98 3.858                 |                          |
| 19 .748                  | 39 1.535                 | 59 2.323                 | 79 3.110                 | 99 3.898                 |                          |
| 20 .787                  | 40 1.575                 | 60 2.362                 | 80 3.150                 | 100 3.937                |                          |

## DECIMAL (inches) TO METRIC EQUIVALENT

| DECIMAL = MM<br>(Inches) | DECIMAL = MM<br>(Inches) | DECIMAL = MM<br>(Inches) | DECIMAL = MM<br>(Inches) | DECIMAL = MM<br>(Inches) | DECIMAL = MM<br>(Inches) |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| .001 .025                | .120 3.048               | .320 8.128               | .520 13.208              | .720 18.288              | .920 23.368              |
| .002 .051                | .130 3.302               | .330 8.382               | .530 13.462              | .730 18.542              | .930 23.622              |
| .003 .076                | .140 3.556               | .340 8.636               | .540 13.716              | .740 18.796              | .940 23.876              |
| .004 .102                | .150 3.810               | .350 8.890               | .550 13.970              | .750 19.050              | .950 24.130              |
| .005 .127                | .160 4.064               | .360 9.144               | .560 14.224              | .760 19.304              | .960 24.384              |
| .006 .152                | .170 4.318               | .370 9.398               | .570 14.478              | .770 19.558              | .970 24.638              |
| .007 .178                | .180 4.572               | .380 9.652               | .580 14.732              | .780 19.812              | .980 24.892              |
| .008 .203                | .190 4.826               | .390 9.906               | .590 14.986              | .790 20.066              | .990 25.146              |
| .009 .229                | .200 5.080               | .400 10.160              | .600 15.240              | .800 20.320              |                          |
|                          |                          |                          |                          |                          |                          |
| .010 .254                | .210 5.334               | .410 10.414              | .610 15.494              | .810 20.574              | 1.000 25.400             |
| .020 .508                | .220 5.558               | .420 10.668              | .620 15.748              | .820 20.828              | 2.000 50.800             |
| .030 .762                | .230 5.842               | .430 10.922              | .630 16.002              | .830 21.082              | 3.000 76.200             |
| .040 1.016               | .240 6.096               | .440 11.176              | .640 16.256              | .840 21.336              | 4.000 101.600            |
| .050 1.270               | .250 6.350               | .450 11.430              | .650 16.510              | .850 21.590              | 5.000 127.000            |
| .060 1.524               | .260 6.604               | .460 11.684              | .660 16.764              | .860 21.844              | 10.000 254.000           |
| .070 1.778               | .270 6.858               | .470 11.938              | .670 17.018              | .870 22.098              | 15.000 381.000           |
| .080 2.032               | .280 7.112               | .480 12.192              | .680 17.272              | .880 22.352              | 20.000 508.000           |
| .090 2.286               | .290 7.366               | .490 12.446              | .690 17.526              | .890 22.606              | 25.000 635.000           |
| .100 2.540               | .300 7.620               | .500 12.700              | .700 17.780              | .900 22.860              | 50.000 1270.000          |
| .110 2.794               | .310 7.874               | .510 12.954              | .710 18.034              | .910 23.114              | 100.000 2540.000         |

XVIII

Standard and Utility Parts Catalog

INCHES and MILLIMETERS CONVERSION CHART — continued

FRACTIONS (inches) TO DECIMALS (inches) and METRIC EQUIVALENTS

| FRACTION<br>(Inches) | =     | DECIMAL<br>(Inches) | =    | MM     | FRACTION<br>(Inches) | =     | DECIMAL<br>(Inches) | = | MM       |
|----------------------|-------|---------------------|------|--------|----------------------|-------|---------------------|---|----------|
| 1/16                 |       | 1/64                | .016 | .397   | 5/8                  |       | .625                |   | 15.875   |
|                      | 1/32  |                     | .031 | .794   |                      | 41/64 | .641                |   | 16.272   |
|                      |       | 3/64                | .047 | 1.191  | 21/32                |       | .656                |   | 16.669   |
|                      |       |                     | .063 | 1.588  |                      | 43/64 | .672                |   | 17.066   |
|                      |       | 5/64                | .078 | 1.984  | 11/16                |       | .687                |   | 17.463   |
|                      | 3/32  |                     | .094 | 2.381  |                      | 45/64 | .703                |   | 17.859   |
| 1/8                  |       | 7/64                | .109 | 2.778  | 23/32                |       | .719                |   | 18.256   |
|                      |       |                     |      |        |                      | 47/64 | .734                |   | 18.653   |
|                      |       |                     | .125 | 3.175  | 3/4                  |       | .750                |   | 19.050   |
|                      |       | 9/64                | .141 | 3.572  |                      | 49/64 | .766                |   | 19.447   |
|                      | 5/32  |                     | .156 | 3.969  | 25/32                |       | .781                |   | 19.844   |
|                      |       | 11/64               | .172 | 4.366  |                      | 51/64 | .797                |   | 20.241   |
| 3/16                 |       |                     | .188 | 4.763  | 13/16                |       | .813                |   | 20.638   |
|                      |       | 13/64               | .203 | 5.159  |                      | 53/64 | .828                |   | 21.034   |
|                      | 7/32  |                     | .219 | 5.556  | 27/32                |       | .844                |   | 21.431   |
|                      |       | 15/64               | .234 | 5.953  |                      | 55/64 | .859                |   | 21.828   |
|                      |       |                     |      |        |                      |       |                     |   |          |
|                      |       |                     | .250 | 6.350  | 7/8                  |       | .875                |   | 22.225   |
| 1/4                  |       | 17/64               | .266 | 6.747  |                      | 57/64 | .891                |   | 22.622   |
|                      | 9/32  |                     | .281 | 7.144  | 29/32                |       | .906                |   | 23.019   |
|                      |       | 19/64               | .297 | 7.541  |                      | 59/64 | .922                |   | 23.416   |
|                      | 5/16  |                     | .313 | 7.938  | 15/16                |       | .938                |   | 23.813   |
|                      |       | 21/64               | .328 | 8.334  |                      | 61/64 | .953                |   | 24.209   |
|                      | 11/32 |                     | .344 | 8.731  | 31/32                |       | .969                |   | 24.606   |
| 3/8                  |       | 23/64               | .359 | 9.128  |                      | 63/64 | .984                |   | 25.003   |
|                      |       |                     |      |        |                      |       |                     |   |          |
|                      |       |                     | .375 | 9.525  | 1                    |       | 1.000               |   | 25.400   |
|                      |       | 25/64               | .391 | 9.922  | 2                    |       | 2.000               |   | 50.800   |
|                      | 13/32 |                     | .406 | 10.319 |                      |       |                     |   |          |
|                      |       | 27/64               | .422 | 10.716 | 3                    |       | 3.000               |   | 76.200   |
| 7/16                 |       |                     | .438 | 11.113 | 4                    |       | 4.000               |   | 101.600  |
|                      |       | 29/64               | .453 | 11.509 |                      |       |                     |   |          |
|                      | 15/32 |                     | .469 | 11.906 | 5                    |       | 5.000               |   | 127.000  |
|                      |       | 31/64               | .484 | 12.303 |                      |       |                     |   |          |
|                      |       |                     |      |        | 10                   |       | 10.000              |   | 254.000  |
|                      |       |                     |      |        |                      |       |                     |   |          |
| 1/2                  |       |                     | .500 | 12.700 | 15                   |       | 15.000              |   | 381.000  |
|                      |       | 33/64               | .516 | 13.097 |                      |       |                     |   |          |
|                      | 17/32 |                     | .531 | 13.494 | 20                   |       | 20.000              |   | 508.000  |
|                      |       | 35/64               | .547 | 13.891 | 25                   |       | 25.000              |   | 635.000  |
|                      | 9/16  |                     | .563 | 14.288 |                      |       |                     |   |          |
|                      |       | 37/64               | .578 | 14.684 | 50                   |       | 50.000              |   | 1270.000 |
|                      | 19/32 |                     | .594 | 15.081 |                      |       |                     |   |          |
|                      |       | 39/64               | .609 | 15.478 | 100                  |       | 100.000             |   | 2540.000 |

## IDENTIFICATION

When it is necessary to replace a Metric fastener (bolt, nut, screw, stud, etc.) ALWAYS choose the correct Metric replacement and NOT the English (Inch) type. They are not interchangeable! Of course, this also holds true for installing a Metric fastener when the English (Inch) size and type was used originally.

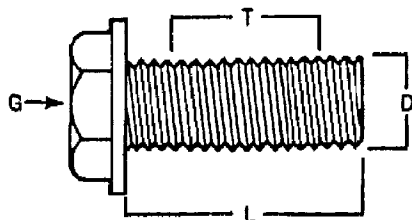
Both types of fasteners (Metric/English) are easily identified with markings or numbers which indicate the *strength* of the fastener. These markings are described below. Attention to these markings is important in assuring that the proper replacement fastener is used in service.

## BOLT IDENTIFICATION

The property class is an Arabic numeral distinguishable from the slash SAE English grade system.

The length of all bolts is measured from the underside of the head to the end.

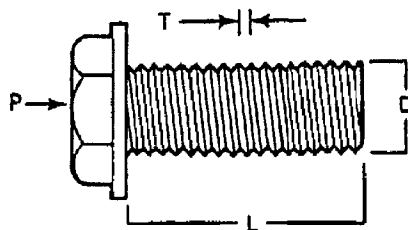
### (ENGLISH) INCH SYSTEM BOLT



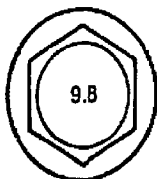
G — Bolt Strength Marking  
L — Length, (inches)  
T — Thread Pitch (thread/inch)  
D — Nominal Diameter (inches)



### METRIC SYSTEM BOLT

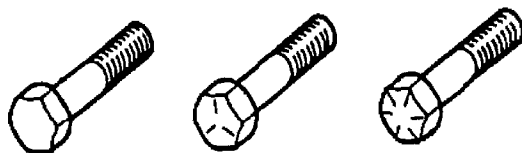


P — Bolt Strength Marking  
L — Length (millimeters)  
T — Thread Pitch (thread width crest to crest mm)  
D — Nominal Diameter (millimeters)



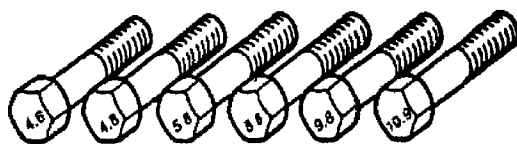
## BOLT STRENGTH IDENTIFICATION

### (ENGLISH) INCH SYSTEM



English (inch) bolts — Identification marks correspond to bolt strength — increasing number of slashes represent increasing strength.

### METRIC SYSTEM



Metric bolts — Identification class numbers correspond to bolt strength — increasing numbers represent increasing strength.

## NUT STRENGTH IDENTIFICATION

### (ENGLISH) INCH SYSTEM



3 Dots

6 Dots

Increasing dots represent increasing strength.

### METRIC SYSTEM



Arabic 9

Arabic 10

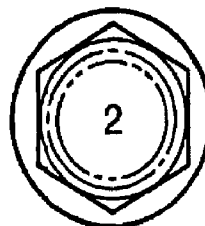
May also have blue finish or paint daub on hex flat. Increasing numbers represent increasing strength.

P-35102

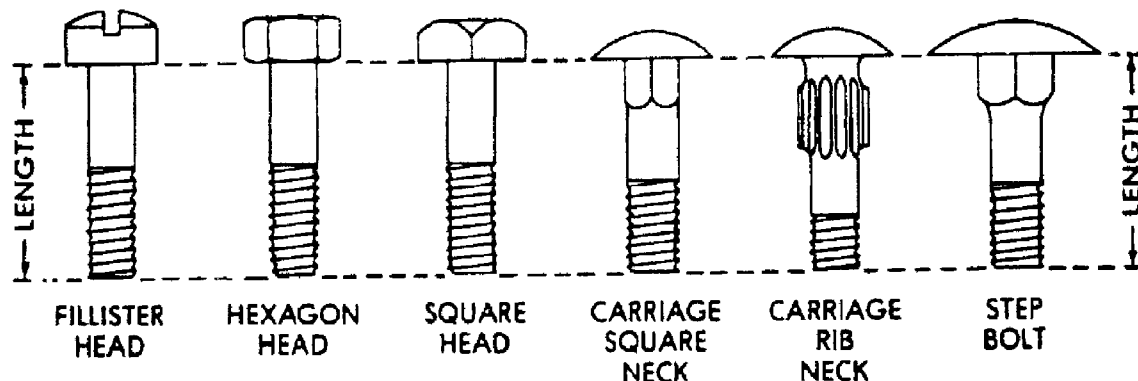
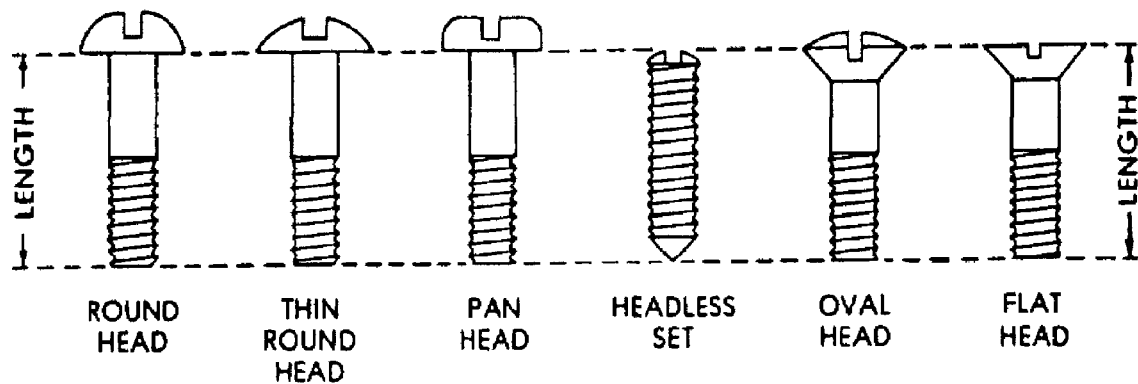
## OTHER TYPES OF PARTS

Metric identification schemes vary by type of part, most often a variation of that used of bolts and nuts. Note that many types of English and metric fasteners carry no special identification if they are otherwise unique.

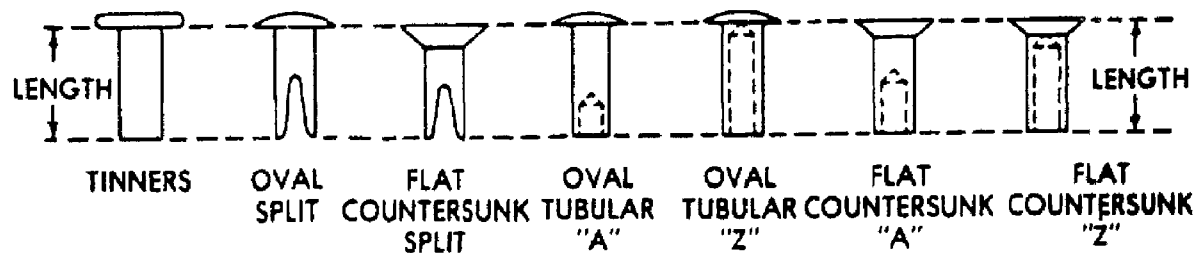
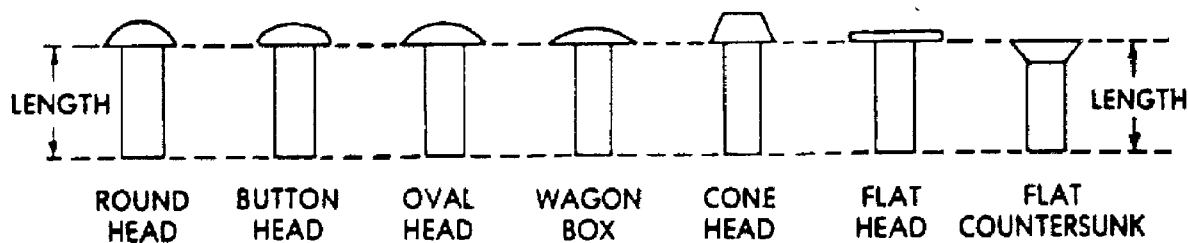
- Stamped "U" Nuts
- Tapping, thread forming and certain other case hardened screws







## STANDARD HEAD RIVETS AND HOW TO MEASURE THE LENGTH



P-35104

# Standard and Utility Parts Catalog

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PH-580

BOLT — HEXAGON HEAD — FULL DIAMETER BODY



PH580

National Coarse Thread

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|--------------|-------|-------------|
| 1/4"     | 20     | 1-1/4" | B-43-EB      | 5     | 304718-S2   |
| 5/16"    | 18     | 5/8"   | B-49-A       | 5     | 56519-S2    |
| 5/16"    | 18     | 1-1/4" | B-55-D       | 5     | 56523-S2    |
| 5/16"    | 18     | 1-1/2" | B-61-A       | 8     | 58620-S2    |
| 5/8"     | 1.25   | 11"    | B-63         | —     | 58718-S2    |
| 3/8"     | 16     | 3/4"   | B-77-D       | 8     | 58633-S2    |
| 3/8"     | 16     | 1"     | B-80-B       | 8     | 58634-S2    |
| 3/8"     | 16     | 1-1/4" | B-82-A       | 8     | 58635-S2    |
| 3/8"     | 16     | 1-1/4" | B-82-AA      | 8     | 58635-1B000 |
| 3/8"     | 16     | 1-1/4" | B-82-AB      | 8     | 58635-S103  |
| 3/8"     | 16     | 1-1/2" | B-85-D       | 8     | 58636-S2    |
| 3/8"     | 16     | 1-3/4" | B-86-A       | 8     | 58637-S2    |
| 3/8"     | 16     | 2"     | B-89-B       | 8     | 58638-S100  |
| 3/8"     | 16     | 2-1/4" | B-90-D       | 8     | 58639-S2    |
| 3/8"     | 16     | 3"     | B-94-Z       | 8     | 58642-S2    |
| 3/8"     | 16     | 3-1/4" | B-95-A       | 8     | 58643-S2    |
| 3/8"     | 16     | 4"     | B-96-C       | 8     | 58646-S2    |
| 3/8"     | 16     | 5-1/4" | B-97-D       | 8     | 391314-S2   |
| 7/16"    | 14     | 1"     | B-103-G      | 8     | 58653-SA    |
| 7/16"    | 14     | 1-1/4" | B-104-B      | 5     | 56561-S2    |
| 7/16"    | 14     | 1-1/4" | B-104-A      | 8     | 58654-S2    |
| 7/16"    | 14     | 1-3/8" | BB-429-UX    | 4     | 304743-S101 |
| 7/16"    | 14     | 1-1/2" | B-107        | 2     | 20470-S8    |
| 7/16"    | 14     | 1-3/4" | B-110-AA     | 8     | 58656-S2    |
| 7/16"    | 14     | 1-7/8" | B-110-A      | 5     | 304815-S    |
| 7/16"    | 14     | 2-1/4" | B-111-D      | 5     | 57664-S2    |
| 7/16"    | 14     | 3-1/4" | B-115-F      | 8     | 58662-S2    |
| 7/16"    | 14     | 6"     | B-117-XA     | 8     | 58670-S2    |
| 1/2"     | 13     | 1-1/4" | B-121-A      | 8     | 58674-S100  |
| 1/2"     | 13     | 1-1/4" | B-121-B      |       | 58674-S2    |
| 1/2"     | 13     | 2"     | B-121-C      | 8     | 58677-S2    |
| 1/2"     | 13     | 1-1/2" | B-122-BB     | 8     | 58675-S100  |
| 1/2"     | 13     | 1-1/2" | B-122-BC     | 8     | 391718-S426 |
| 1/2"     | 13     | 1-1/2" | B-122-BC     | 8     | 391718-S439 |
| 1/2"     | 13     | 1-3/4" | B-123-B      | 8     | 58676-S2    |
| 1/2"     | 13     | 1-3/4" | B-123-B      | 8     | 58676-S     |
| 1/2"     | 13     | 2-1/4" | B-125-A      | 8     | 58678-S2    |
| 1/2"     | 13     | 2-1/2" | B-126-B      | 8     | 58679-S2    |
| 1/2"     | 13     | 4"     | B-129-EE     | 8     | 58685-S2    |
| 1/2"     | 13     | 4-1/2" | B-129-H      | 8     | 58687-S2    |
| 1/2"     | 13     | 5"     | B-129-C      | 8     | 58688-S2    |
| 9/16"    | 12     | 1-1/2" | B-131-A      | 8     | 58697-S2    |
| 9/16"    | 12     | 1-3/4" | B-131-B      | 8     | 58698-S2    |
| 9/16"    | 12     | 2"     | B-134-A      | 8     | 58699-S2    |

(continued)


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Standard and Utility Parts Catalog

| PH-580                          |        | BOLT — HEXAGON HEAD — FULL DIAMETER BODY (Cont'd) |              |       |             |
|---------------------------------|--------|---|--------------|-------|-------------|
| National Coarse Thread (Cont'd) |        |   |              |       |             |
| DIAMETER                        | THREAD | LENGTH  | LOCATOR CODE | GRADE | PART NUMBER |
| 5/8"                            | 11     | 1-1/2"  | B-137-D      | 8     | 58719-S2    |
| 5/8"                            | 11     | 1-3/4"  | B-138-BA     | 8     | 58720-S100  |
| 5/8"                            | 11     | 2"  | B-139-D      | 8     | 58721-S2    |
| 5/8"                            | 11     | 2-1/4"  | B-139-E      | 8     | 58722-S2    |
| 5/8"                            | 11     | 3"  | B-142-A      | 8     | 58725-S2    |
| 5/8"                            | 11     | 3-1/2"  | B-144-AA     | 8     | 58727-S2    |
| 5/8"                            | 11     | 4"  | B-144-AC     | 8     | 58729-S2    |
| 5/8"                            | 11     | 4-1/2"  | B-144-C      | 8     | 58731-S2    |
| 3/4"                            | 10     | 1-3/4"  | B-145-FF     | 8     | 58740-S100  |
| 3/4"                            | 10     | 2-1/4"  | B-145-H      | 8     | 58742-S2    |
| 3/4"                            | 10     | 3-1/2"  | B-148-C      | 8     | 58747-S2    |
| 3/4"                            | 10     | 3-3/4"  | B-147-L      | 8     | 58748-S2    |
| 3/4"                            | 10     | 4-1/4"  | B-148-GA     | 8     | 58750-S2    |
| 3/4"                            | 10     | 6"  | B-148-L      | 8     | 58754-S2    |
| National Fine Thread            |        |   |              |       |             |
| 5/16"                           | 24     | 3"  | B-166-A      | 5     | 300891-S2   |
| 5/16"                           | 24     | 5"  | B-73-B       | 5     | 300958-S    |
| 3/4"                            | 20     | 2-1/2"  | B-146-H      | 8     | 58743-S2    |

PH-753

BOLT — HEXAGON HEAD FLANGE SERRATED

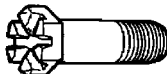


PH753

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|--------------|-------|-------------|
| 5/16"    | 18     | 7/8"   | B-319-HA     | 5     | 56521-S2    |
| 5/16"    | 18     | 1/2"   | B-319-H      | 5     | 56518-S37   |
| 7/16"    | 14     | 1"     | B-400-G      | 5     | 57727-S2    |

PH-48

BOLT — HEXAGON SLOTTED HEAD — SELF LOCKING



PH48

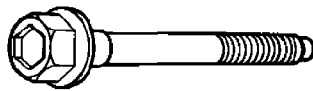
| National Coarse Thread |        |        |              |       |             |
|------------------------|--------|--------|--------------|-------|-------------|
| DIAMETER               | THREAD | LENGTH | LOCATOR CODE | GRADE | PART NUMBER |
| 1/4"                   | 20     | 1/2"   | B-40-A       | 8     | 42910-S     |
| 1/4"                   | 20     | 5/8"   | B-41-A       | 8     | 42911-S     |
| 3/8"                   | 16     | 7/8"   | B-252-B      | 8     | 42997-S2    |
| 3/8"                   | 16     | 1"     | B-252-A      | 8     | 42998-S36   |
| 7/16"                  | 14     | 7/8"   | B-263-B      | 8     | 43039-S2    |
| 7/16"                  | 14     | 1-3/4" | B-263-GA     | 8     | 43046-S2    |
| 1/2"                   | 13     | 2-1/8" | B-271-D      | 5     | 46108-S     |
| National Fine Thread   |        |        |              |       |             |
| 9/16"                  | 18     | 2-3/4" | B-236        | 8     | 43173-S2    |

# Standard and Utility Parts Catalog

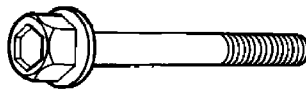
3

PH-730

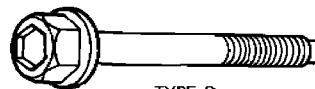
BOLT — HEXAGON WASHER HEAD — UBS



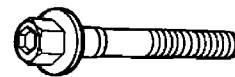
TYPE 1



TYPE 2



TYPE 3



TYPE 4

PH730

## National Coarse Thread

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|------|--------------|-------|-------------|
| 3/8"     | 16     | 3/4"   | 1    | B-329-E      | 5     | 56538-S100■ |
| 7/16"    | 14     | 5.23"  | 1    | B-326-DA     | —     | 392009-S190 |
| 3/8"     | 16     | 1-1/2" | 2    | B-320-C      | 5     | 56542-S2    |
| 3/8"     | 16     | 6"     | 2    | B-329-F      | 5     | 56557-S2    |
| 3/8"     | 16     | 1-3/4" | 2    | B-320-G      | 5     | 56143-S100  |
| 7/16"    | 14     | 3/4"   | 2    | B-320-D      | 5     | 56558-S36   |
| 1/4"     | 20     | 3/4"   | 2    | B-319-CC     | 5     | 56503-S2    |
| 1/4"     | 20     | 7/8"   | 2    | B-319-DD     | 5     | 56704-S2    |
| 1/4"     | 20     | 6"     | 2    | B-321-T      | 5     | 56577-S2    |
| 5/16"    | 18     | 1/2"   | 2    | B-319-A      | 5     | 56518-S36   |
| 5/16"    | 18     | 3/4"   | 2    | B-319-J      | 5     | 56520-S2    |
| 5/16"    | 18     | 1-1/2" | 2    | B-319-LA     | 5     | 56124-S2    |
| 5/16"    | 18     | 2"     | 2    | B-319-Z      | 8     | 388058-S8   |
| 3/8"     | 16     | 7/8"   | 2    | B-320-RR     | 5     | 56539-S2    |
| 3/8"     | 16     | 1-1/4" | 2    | B-320        | 5     | 56141-S2    |
| 3/8"     | 16     | 1-3/4" | 2    | B-320-F      | 5     | 56543-S36   |
| 3/8"     | 16     | 1-3/4" | 2    | B-320-F      | 5     | 56543-S2    |
| 1/2"     | 13     | 3-3/4" | 2    | B-322-AF     | 5     | 56192-S2    |

## National Fine Thread

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|------|--------------|-------|-------------|
| 9/16"    | 12     | 4-1/2" | 2    | B-322-E      | 5     | 56217-S2    |
| 9/16"    | 12     | 5"     | 2    | B-322-H      | 5     | 56218-S2    |
| 5/16"    | 18     | 7/8"   | 3    | B-318-GD     | 5     | 56720-S2    |
| 5/16"    | 18     | 1-1/4" | 3    | B-318-GM     | 5     | 56723-S2    |
| 3/8"     | 16     | 1-1/8" | 3    | B-323        | 5     | 56740-S2    |
| 1/2"     | 13     | 5"     | 3    | B-321-A      | 5     | 56796-S     |
| 5/16"    | 18     | 1-1/2" | 4    | B-326-A      | 5     | 391136-S8   |

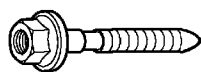
## Metric

|      |        |        |   |        |   |              |
|------|--------|--------|---|--------|---|--------------|
| M8   | 1.25mm | 65mm   | 1 | C-20-A |   | W705386-S309 |
| 14mm | 2mm    | 95.5mm | 1 | C-20-F | 8 | N808395-S60  |
| M6   | 1.0mm  | 36.3mm | 3 | C-20-B |   | N807437-S426 |
| M12  | 1.75mm | 76mm   | 4 | C-20-C | 6 | N811878-S436 |

■ Includes Sealer

# Standard and Utility Parts Catalog

PH-731      BOLT — HEXAGON — CONE PT.

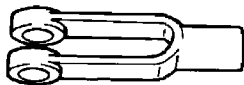


TYPE 1

PH-731  
01/11/2002

| DIAMETER | THICKNESS | LENGTH | TYPE | HEAD | P/C | LOC     | PART NUMBER    |
|----------|-----------|--------|------|------|-----|---------|----------------|
| M14      | 2.0mm     | 83.0mm | 1    | Hex  | 10  | B-383-A | ★ W701798-S426 |

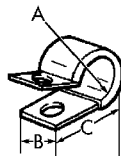
PH-548      CLEVIS



PH548

| HOLE DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|---------------|--------|--------|--------------|-------------|
| 1/2"          | 20     | 3"     | F-4          | 97015-S36   |

PH-752      CLIP

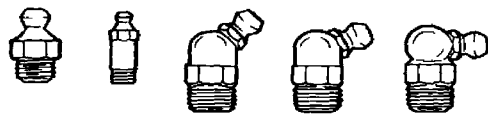


PH752

| A    | B    | C  | LOCATOR CODE | PART NUMBER |
|------|------|----|--------------|-------------|
| 3/8" | 3/4" | 1" | G-10-C       | 95854-S32   |

| Metric |      |        |         |              |
|--------|------|--------|---------|--------------|
| 7.0mm  | 12mm | 21.3mm | G-10-CC | W704074-S307 |

PH-707      FITTING — LUBRICATOR



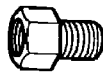
TYPE 1    TYPE 2    TYPE 3    TYPE 4    TYPE 5

PH707

| PIPE THREAD | LENGTH  | THREAD LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|-------------|---------|---------------|------|--------------|-------------|
| 1/8"-27     | 3/4"    | 3/16"         | 1    | I-1          | 87901-S8    |
| 1/4"-28     | 1/2"    | 7/64"         | 2    | I-3          | 87907-S8    |
| 1/8"-27     | 1-1/32" | 3/16"         | 3    | I-6          | 87913-S8    |

PH-708

FITTING — TUBE CONNECTOR — INVERTED



TYPE 1



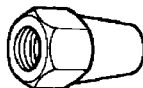
TYPE 3

PH708

| TUBE SIZE | FEMALE THREAD | MALE THREAD | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|-----------|---------------|-------------|----------|------|--------------|-------------|
| 5/16"     | 1/2"-20       | 1/8"-27     | Brass    | 1    | I-13         | 87972-S     |

PH-534

FITTING — TUBE NUT



PH534

| TUBE SIZE | FEMALE THREAD | MALE THREAD | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|-----------|---------------|-------------|----------|------|--------------|-------------|
| 1/2"      | 3/4"-16       |             | Steel    |      | I-43         | ★87415-S36  |

PH-709

FITTING — TUBE CONNECTOR NUT — INVERTED



PH709

| TUBE SIZE | THREAD SIZE | MATERIAL | LOCATOR CODE | GRADE | PART NUMBER |
|-----------|-------------|----------|--------------|-------|-------------|
| 3/16"     | 3/8"-24     | Steel    | I-20         |       | 87942-S8    |

PH-198

FITTING — TUBE ELBOW



TYPE 1



TYPE 2



TYPE 3



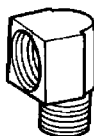
TYPE 4

PH198

| TUBE SIZE | MALE THREAD | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|-----------|-------------|----------|------|--------------|-------------|
| 1/4"      | 7/16"-20    | 7/16"-20 | 3    | I-46-F       | ★86324-S100 |

PH-533

FITTING — TUBE ELBOW — INVERTED — 90°



PH533

| TUBE SIZE | FEMALE THREAD | MALE THREAD | MATERIAL | LOCATOR CODE | PART NUMBER |
|-----------|---------------|-------------|----------|--------------|-------------|
| 1/4"      | 7/16"-24      | 1/8"-27     | Brass    | I-35         | ★87381-S    |

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Standard and Utility Parts Catalog

PH-532

FITTING — TUBE UNION



TYPE 2

PH-532A

| DIAMETER | THREAD | LENGTH | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|----------|------|--------------|-------------|
| 1/4"     | 24     | .72mm  | Brass    | 2    | I-27-Z       | 391919-S    |
| 3/16"    | 24     |        |          |      |              |             |

PH-547

KEY — WOODRUFF

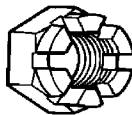


PH547

| DIAMETER | THICKNESS | LOCATOR CODE | PART NUMBER |
|----------|-----------|--------------|-------------|
| 7/8"     | 1/4"      | L-13         | 74151-S     |

PH-526

NUT — CASTLE and SLOTTED



PH526

| National Fine Thread |        |                    |           |              |       |             |
|----------------------|--------|--------------------|-----------|--------------|-------|-------------|
| DIAMETER             | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER |
| 9/16"                | 18     | 7/8"               | 1/2"      | M-11-L       | 5     | 386034-S60  |

PH-728

NUT — CLINCH



PH-728

| DIAMETER | THREAD | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|-----------|--------------|-------|-------------|
| 5/16"    | 24     | 21/64"    | M-10-A       | —     | 34443-S2    |

PH-558

NUT — CROWN



PH558

| National Coarse Thread |        |              |       |             |
|------------------------|--------|--------------|-------|-------------|
| DIAMETER               | THREAD | LOCATOR CODE | GRADE | PART NUMBER |
| 1/4"                   | 20     | M-4-W        | 2     | 34162-S40   |

PH-528

NUT — HEXAGON — JAM



PH528

## National Coarse Thread

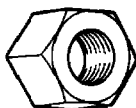
| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|--------------|-------|-------------|
| 1/2"     | 13     | 3/4"               | 21/64"    | M-28-A       | 2     | 33942-S2    |

## National Fine Thread

|       |    |        |      |        |   |            |
|-------|----|--------|------|--------|---|------------|
| 9/16" | 18 | 11/16" | 1/4" | M-34-A | 2 | ★86235-S36 |
|-------|----|--------|------|--------|---|------------|

PH-525

NUT — HEXAGON — REGULAR



PH525

## National Coarse Thread

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|--------------|-------|-------------|
| 1/4"     | 20     | 7/16"              | 7/32"     | M-49         | 5     | 33795-S7    |
| 5/16"    | 18     | 1/2"               | 17/64"    | M-50         | 5     | 33797-S7    |
| 3/8"     | 16     | 9/16"              | 21/64"    | M-52         | 5     | 33799-S2    |
| 3/8"     | 16     | 9/16"              | 21/64"    | M-52-A       | 5     | 33799-S36   |
| 7/16"    | 14     | 11/16"             | 3/8"      | M-54         | 5     | 34670-S2    |
| 1/2"     | 13     | 3/4"               | 7/16"     | M-57         | 5     | 33845-S8    |
| 3/4"     | 16     | 1-1/64"            | 11/32"    | M-60-C       |       | 374504-S100 |

## National Fine Thread

|      |    |      |       |      |   |          |
|------|----|------|-------|------|---|----------|
| 1/2" | 20 | 3/4" | 7/16" | M-69 | 5 | 33846-S8 |
|------|----|------|-------|------|---|----------|

PH-540

NUT — LOCK — FREE RUNNING



TYPE 1



TYPE 2

PH540

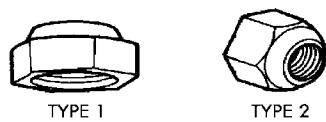
## National Coarse Thread

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|------|--------------|-------|-------------|
| 1/4"     | 20     | 7/16"              | 1/4"      | 2    | M-96-EJ      | 2     | 55734-S2    |
| 3/8"     | 16     | 17/32"             | 11/32"    | 2    | M-96-G       | 2     | 55738-S2    |
| 5/16"    | 18     | 1/2"               | 19/64"    | 2    | M-96-F       | 2     | 55736-S436  |
| 5/16"    | 18     | 1/2"               | 19/64"    | 2    | M-96-F       | 2     | 55736-S441  |



PH-541

NUT — LOCK — TORQUE TYPE



PH541

| National Coarse Thread |        |                    |           |      |              |       |             |
|------------------------|--------|--------------------|-----------|------|--------------|-------|-------------|
| DIAMETER               | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
| 1/4"                   | 20     | 7/16"              | 1/4"      | 2    | M-89-AC      | 5     | 34975-S2    |
| 5/16"                  | 18     | 1/2"               | 1/4"      | 2    | M-89-CD      | 5     | 34976-S2    |
| 3/8"                   | 16     | 9/16"              | 11/32"    | 2    | M-89-DG      | 8     | 34987-S100  |
| 3/8"                   | 16     | 9/16"              | 11/32"    | 2    | M-89-DH      | 8     | 34987-S2    |
| 3/8"                   | 16     | 9/16"              | 3/8"      | 2    | M-89-CG      | 5     | 34977-S2    |
| 7/16"                  | 14     | 11/16"             | 3/8"      | 2    | M-89-EC      | 8     | 34988-S100  |
| 1/2"                   | 13     | 3/4"               | 7/16"     | 2    | M-89-FA      | 8     | 34989-S2†   |
| 1/2"                   | 13     | 3/4"               | 7/16"     | 2    | M-89-FD      | 8     | 34989-S427  |
| 9/16"                  | 12     | 7/8"               | 31/64"    | 2    | M-89-G       | 8     | 34990-S2    |
| 5/8"                   | 11     | 15/16"             | 17/32"    | 2    | M-89-GH      | 8     | 34991-S2    |
| 5/8"                   | 11     | 15/16"             | 5/8"      | 2    | M-89-HB      | 5     | 34981-S2    |
| 3/4"                   | 10     | 1-1/8"             | 5/8"      | 2    | M-89-HF      | 8     | 34992-S2    |

| National Fine Thread |        |                    |           |      |              |       |             |
|----------------------|--------|--------------------|-----------|------|--------------|-------|-------------|
| DIAMETER             | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
| 1/4"                 | 28     | 7/16"              | 1/4"      | 2    | M-78-A       | 5     | 55690-S7    |
| 1/4"                 | 28     | 7/16"              | 1/4"      | 2    | M-78-A       | 5     | 55690-S2    |
| 5/8"                 | 18     | 29/32"             | 9/16"     | 2    | M-89-AB      | 8     | 55722-S100  |
| 5/8"                 | 18     | 29/32"             | 9/16"     | 2    | M-89-AB      | 8     | 55722-S21   |

† Includes Sealer

PH-735

NUT — LOCK — TORQUE TYPE

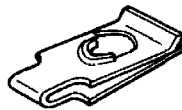


PH735

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|--------------|-------|-------------|
| 1/4"     | 20     | 7/16"              | 5/16"     | M-89-J       | 5     | 33769-S2    |
| 5/8"     | 11     | —                  | —         | M-89-J       |       | 391970-S436 |
| 5/16"    | 18     | 1/2"               | 3/8"      | M-89-KA      | 5     | 33770-S2    |
| 3/8"     | 16     | 9/16"              | 15/32"    | M-89-LB      | 5     | 33771-S2    |
| 1/2"     | 13     | 11/16"             | 1/2"      | M-89-M       | 5     | 33773-S2    |

| Metric |   |         |        |        |    |              |
|--------|---|---------|--------|--------|----|--------------|
| M10    | — | 16.64mm | 13.5mm | M-90-C | 8  | W520203-S    |
| M12    |   | 26mm    | 13.8mm | M-90-D | 10 | W520114-S301 |
| M22    |   | 34.4mm  | 21.7mm | M-95-C | 10 | N808985-S100 |

## PH-544 NUT — SPRING — “U” SHAPE



TYPE 1

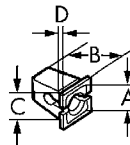


TYPE 2

PH544

| DIAMETER | THREAD | WIDTH  | LENGTH  | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|---------|------|--------------|-------|-------------|
| No. 8    | 18     | 1/2"   | 1"      | 1    | M-138-E      | 2     | 45260-S2    |
| No. 8    | 18     | 1/2"   | 1"      | 1    | M-138-E      | 2     | 45260-S301  |
| No. 8    | 18     | 17/32" | 25/32"  | 1    | M-138-C      | 2     | 45257-S2    |
| No. 8    | 18     | 17/32" | 25/32"  | 1    | M-138-C      | 2     | 45257-S32   |
| No. 8    | 18     | 17/32" | 25/32"  | 1    | M-138-C      | 2     | 45257-S427  |
| No. 8    | 18     | 17/32" | 25/32"  | 1    | M-138-C      | 2     | 45257-S7    |
| 1/4"     | 14     | 41/64" | 1"      | 1    | M-141-E      | 2     | 45261-S2    |
| 1/4"     | 20     | 19/32" | 1-3/16" | 1    | M-141-F      | 5     | 45267-S101  |
| 3/8"     | 16     | 61/64" | 1-5/16" | 1    | M-141-K      | 5     | 45265-S2    |
| 1/4"     | 20     | 19/32" | 15/64"  | 2    | M-192-E      | 5     | 45263-S101  |

## PH-537 NUT — SQUARE



TYPE 1

PH537  
12/01/2003

| A     | B      | C     | D     | TYPE | LOCATOR CODE | COLOR/MATL | PART NUMBER  |
|-------|--------|-------|-------|------|--------------|------------|--------------|
| 7.0mm | 12.0mm | 8.0mm | 2.7mm | 1    | M-147-A      | Black      | W701237-S300 |

## PH-740 NUT — STAMPED — FACETED FLANGE with SEALER



PH740

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|--------------|-------|-------------|
| No. 8    | 32     | 11/32"             | 3/8"      | M-180        | 2     | 45271-S36   |

## PH-545 NUT — STAMPED — 1 NOTCH



PH-545

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|--------------|-------|-------------|
| 1/4"     |        | 7/16"              | 1/4"      | M-179-A      | 2     | 45288-S36■  |

■ With Sealer

# Standard and Utility Parts Catalog

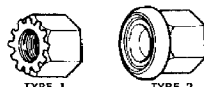
**PH-538      NUT — WING**



PH538

| DIAMETER | THREAD | LOCATOR CODE | GRADE | PART NUMBER  |
|----------|--------|--------------|-------|--------------|
| 5/16"    | 18     | M-182        | 2     | ★ 33896-S8   |
| 7/16"    | 14     | M-184        | 2     | ★ 33898-S7-8 |

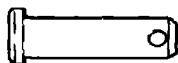
**PH-718      NUT and WASHER ASSY.**



PH-718

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | TYPE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|--------------|------|-------|-------------|
| No. 8    | 32     | 11/32"             | 1/8"      | M-106-XA     | 1    | 2     | 34653-S36M  |
| 1/4"     | 20     | 7/16"              | 7/32"     | M-107-D      | 1    | 2     | 34659-S36   |
| 3/8"     | 16     | 9/16"              | 3/8"      | M-107-A      | 1    | 2     | 34663-S36   |
| 5/16"    | 18     | 1/2"               | 1/4"      | M-109        | 2    | 5     | 45338-S2    |
| 7/16"    | 14     | 11/16"             | 3/8"      | M-109-A      | 2    | 5     | 45350-S2    |

**PH-506      PIN — CLEVIS — HARDENED**



PH506

| DIAMETER | LENGTH   | LOCATOR CODE | PART NUMBER |
|----------|----------|--------------|-------------|
| 5/16"    | 53/64"   | N-6          | 76007-S8    |
| 3/8"     | 15/16"   | N-24-B       | 76025-S2    |
| 1/2"     | 1-15/64" | N-31         | 73951-S7    |

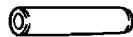
**PH-500      PIN — COTTER**



PH500

| DIAMETER | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------------|-------------|
| 1/8"     | 1-1/4" | N-52         | 72053-S     |
| 1/8"     | 1-1/2" | N-54         | 72071-S     |
| 1/8"     | 1-3/4" | N-55         | 72089-S     |
| 1/8"     | 2"     | N-56         | 72107-S     |
| 3/16"    | 2"     | N-68-G       | 72109-S36   |
| 3/16"    | 2-1/2" | N-68-H       | 72145-S36   |

**PH-729      PIN — SPRING — COIL**

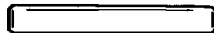


PH729

| DIAMETER | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------------|-------------|
| 1/8"     | 3/4"   | N-100-E      | 67555-S     |
| 1/8"     | 13/16" | N-101-F      | 67775-S2    |

PH-529

PIN — STRAIGHT — CHAMFERED END



PH529

| DIAMETER | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------------|-------------|
| 5/16"    | 1-1/8" | N-87-B       | 73328-S*    |

\* Dowel

PH-505

PLUG — PIPE



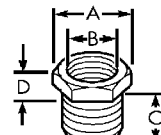
TYPE 1



TYPE 2



TYPE 3



TYPE 4

PH-505  
12/19/2002

| PIPE SIZE | THREAD | THREAD LENGTH | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|-----------|--------|---------------|----------|------|--------------|-------------|
| 1/8"      | 27     | 3/8"          | Steel    | 1    | P-12         | 87650-S     |
| 1/8"      | 27     | 3/8"          | Steel    | 1    | P-12         | 87650-S2    |
| 3/8"      | 18     | 21/64"        | Steel    | 1    | P-12-C       | 87617-S     |
| 1/8"      | 27     | 19/64"        | Steel    | 2    | P-14         | 87708-S     |
| 1/4"      | 18     | 27/64"        | Steel    | 2    | P-15         | 87837-S100  |
| 1/4"      | 18     | 27/64"        | Steel    | 2    | P-15         | 87837-S102  |
| 1/4"      | 18     | 27/64"        | Steel    | 2    | P-15         | 87837-S105  |
| 1/4"      | 18     | 27/64"        | Steel    | 2    | P-15         | 87837-S106  |
| 3/8"      | 18     | 3/8"          | Steel    | 2    | P-15-F       | 87838-S2    |
| 1/8"      | 27     | 9/32"         | Steel    | 2    | P-15G        | 87836-S101  |
| 3/8"      | 18     | 3/8"          | Steel    | 2    | P-15-F       | 87838-S101  |
| 1/2"      | 14     | 5/8"          | Iron     | 2    | P-17         | 87675-SΔ    |
| 1/8"      | 27     | 5/16"         | Steel    | 3    | P-19-A       | 87743-S101  |
| 3/4"      | 14     | 19/32"        | Steel    | 3    | P-19-B       | 87747-S101  |
| 1/4"      | 18     | 0.46"         | Steel    | 3    | P-23         | 87744-S104  |

## Metric

| A      | B      | C      | D    | THREAD LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
|--------|--------|--------|------|---------------|------|--------------|--------------|
| 19.0mm | 14.3mm | 14.5mm | 6.75 | 3/8 - 18      | 4    | P-12-D       | W705279-S304 |
| 19.0mm | 14.3mm | 14.5mm | 6.75 | 3/8 - 18      | 4    | P-12-D       | W705279-S309 |
| 19.0mm | 14.3mm | 14.5mm | 6.75 | 3/8 - 18      | 4    | P-12-D       | W705279-S437 |
| 19.0mm | 14.3mm | 14.5mm | 6.75 | 3/8 - 18      | 4    | P-12-D       | W705279-S900 |

Δ Nylon Plug

# Standard and Utility Parts Catalog

## PH-591 RING — SNAP



TYPE 1



TYPE 2



TYPE 3



TYPE 4



TYPE 5



TYPE 6

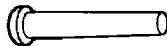


TYPE 7

PH591

| OUTSIDE DIAMETER | INSIDE DIAMETER | THICKNESS | TYPE | LOCATOR CODE | PART NUMBER |
|------------------|-----------------|-----------|------|--------------|-------------|
| 53/64"           | 11/16"          | 3/64"     | 1    | Q-4-A        | 97663-S     |
| 23/32"           | 9/16"           | 1/32"     | 3    | QQ-4         | 97474-S     |
| 5/16"            | 1/8"            | 1/32"     | 4    | Q-4-Y        | ★97406-S    |
| 17/32"           | 13/64"          | 1/32"     | 4    | Q-5-A        | 97409-S8    |
| 21/32"           | 19/64"          | 3/64"     | 4    | Q-5-C        | ★97411-S2   |
| 15/16"           | 31/64"          | 3/64"     | 4    | Q-5-J        | ★97414-S    |
| 1-1/8"           | 37/64"          | 3/64"     | 4    | Q-5-M        | ★97415-S    |
| 1-61/64"         |                 | 1/16"     | 5    | Q-6-A        | ★97627-S2   |
| 2-1/16"          | 1-13/16"        | 1/8"      | 5    | Q-6-G        | 97713-S     |
| 1-7/64"          | 1"              | 3/64"     | 6    | Q-6-C        | ★97615-S    |
| 13/16"           | 3/8"            | 3/64"     | 7    | Q-7-A        | 97413-S     |
| 13/16"           | 3/8"            | 3/64"     | 7    | Q-7-A        | 97413-S56   |

## PH-517 RIVET — SOLID — PAN HEAD



PH517

| DIAMETER | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------------|-------------|
| 1/8"     | 13/16" | S-10         | ★61489-S    |
| 9/64"    | 1/4"   | S-10-A       | ★63760-S7   |

## PH-747 SCREW — HEXAGON WASHER HEAD



PH747

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|--------------|-------|-------------|
| No. 4    | 40     | 1/2"   | B-39-A       | 5.1   | ★57002-S2   |

## PH-611 SCREW and LOCKWASHER ASSY. — FILLISTER HEAD — SPLIT RING



PH611

| National Fine Thread |        |        |              |             |  |
|----------------------|--------|--------|--------------|-------------|--|
| DIAMETER             | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |  |
| No. 10               | 32     | 5/8"   | U-77-F       | 43256-S8    |  |

PH-737

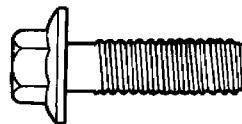
SCREW and CONICAL WASHER ASSY. — HEXAGON HEAD



TYPE 1



TYPE 2



TYPE 3

PH737

## National Coarse Thread

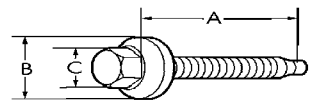
| DIAMETER | THREAD | LENGTH  | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|---------|------|--------------|-------|-------------|
| No. 8    | 32     | 3/4"    | 1    | B-330-B      | 5     | 57077-S2    |
| 1/2"     | 13     | 1.25"   | 1    | B-343        | 8     | 391558-S100 |
| 1/4"     | 20     | 49/64"  | 2    | B-339-V      | 5     | 57472-S40   |
| 1/4"     | 20     | 29/32"  | 2    | B-339-W      | 5     | 57030-S2    |
| 1/4"     | 20     | 1-5/32" | 2    | B-340        | 5     | 57032-S2    |
| 1/4"     | 20     | 1-1/4"  | 2    | B-340-AB     | 5     | 57033-S36   |
| 5/16"    | 18     | 1-3/16" | 2    | B-340-D      | 5     | 57041-S2    |
| 3/8"     | 16     | 1-1/8"  | 2    | B-340-J      | 5     | 57048-S2    |
| 7/16"    | 16     | 1-1/8"  | 2    | BB-340-K     | 5     | 57049-S53B  |

## Metric

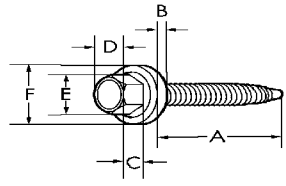
|     |         |         |   |          |      |               |
|-----|---------|---------|---|----------|------|---------------|
| M6  | 24.5mm  | 20mm    | 1 | AB-340   |      | N807260-S100  |
| M6  | 1.0mm   | 18.75mm | 1 | AB-340-A | 8    | N808401-S424  |
| M5  | 20.5mm  | 23.25mm | 2 | AB-356   | 8.8  | W701708-S309  |
| M5  | 1mm     | 10mm    | 2 | 070-020  | 8.8  | W611621-S301  |
| M6  | 1mm     | 10mm    | 2 | AB-310   | 8.8  | W611621-S301  |
| M5  | 1mm     | 16mm    | 2 | 070-020  | 8.8  | W611624-S58   |
| M8  | 1.25mm  | 21.5mm  | 2 | AB-340-C | 9.8  | N806178-S309  |
| M8  | 1.25mm  | 21.5mm  | 2 | AB-340-C | 9.8  | N806178-S437  |
| M8  | —       | 27.42mm | 2 | AB-342   | 10.9 | W705196-S439  |
| M8  | 1.25mm  | 16mm    | 2 | 070-020  |      | N803263-S58   |
| M8  | 1.25mm  | 28mm    | 2 | AU-9-AH  | 9.81 | N605906-S309  |
| M8  | 36mm    | 47mm    | 2 | AU-9-CD  | 8.8  | W701625-S309  |
| M8  | 38mm    | 41mm    | 2 | AU-9-CB  | 8.8  | ★W705128-S309 |
| M8  | 38mm    | 41mm    | 2 | AU-9-CB  | 8.8  | W705128-S437  |
| M8  | 43.81mm | 45.05mm | 2 | AU-9-CJ  | —    | W705735-S301  |
| M8  | 43.81mm | 45.05mm | 2 | AU-9-CJ  | —    | W705735-S438  |
| M8  | 25mm    | 36mm    | 2 | AU-9-CF  | 10   | W701834-S424  |
| M8  | 25mm    | 36mm    | 2 | AU-9-CG  | 10   | W701834-S307  |
| M8  | 25mm    | 36mm    | 2 | AU-9-CH  | 10   | W701834-S436  |
| M8  | 25mm    | 36mm    | 2 | AU-9-CH  | 10   | W701834-S439  |
| M8  | 25mm    | 36mm    | 2 | AU-9-CH  | 10   | W701834-S301  |
| M5  | .80mm   | 12mm    | 3 | AB-330-A | 8    | N605889-S301  |
| M5  | .80mm   | 25mm    | 3 | AB-330-C |      | N605787-S1000 |
| M6  | —       | 12mm    | 3 | AB-310-A | 8.8  | W503921-S426  |
| M8  | —       | 30mm    | 3 | AU-9-AC  | 8.8  | W503933-S309M |
| M8  | —       | 30mm    | 3 | AU-9-AJ  | 8.8  | W503933-S301  |
| M14 | —       | 50mm    | 3 | AU-330-D | 10.9 | W707589-S426  |

# Standard and Utility Parts Catalog

## PH-737(A) SCREW and CONICAL SPRING WASHER ASSY.



TYPE 1



TYPE 2

PH-737(A)  
01/10/2003

| NOMINAL SIZE | A       | B       | C       | D    | E      | F       | TYPE | P/C  | LOCATOR CODE | PART NUMBER   |
|--------------|---------|---------|---------|------|--------|---------|------|------|--------------|---------------|
| M4           | 16mm    | 10mm    | 5.5mm   | —    | —      | —       | 1    | 8.8  | WC-110-F     | W503903-S309  |
| M5           | 16mm    | 14.5mm  | 7mm     | —    | —      | —       | 1    | 8.8  | WC-110-G     | W503813-S437  |
| M5           | 16mm    | 14.5mm  | 7mm     | —    | —      | —       | 1    | 8.8  | WC-110-G     | W503913-S426  |
| M5           | 16mm    | 14.5mm  | 7mm     | —    | —      | —       | 1    | 8.8  | WC-110-G     | W503913-S436  |
| M6           | 12mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-H     | W503921-S301  |
| M6           | 14mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-J     | W503922-S438  |
| M6           | 16mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-A     | W503823-S301  |
| M6           | 16mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-A     | W503823-S307  |
| M6           | 16mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-K     | W503923-S301  |
| M6           | 16mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-K     | W503923-S438  |
| M6           | 16mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-K     | W503923-S439  |
| M6           | 16mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-L     | W503923-S309  |
| M6           | 20mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-B     | W503824-S301  |
| M6           | 20mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-C     | W705031-S301  |
| M6           | 20mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-M     | W503924-S307  |
| M6           | 20mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-M     | W503924-S309M |
| M6           | 20mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-N     | W503924-S435  |
| M6           | 20mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-P     | W503924-S439  |
| M6           | 25mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-A     | W503925-S301  |
| M6           | 25mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-A     | W503925-S424  |
| M6           | 25mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-A     | W503925-S426  |
| M6           | 30mm    | 19.1mm  | 8mm     | —    | —      | —       | 1    | 8.8  | WC-110-R     | W503926-S439  |
| M8           | 16mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-100-C     | W503830-S301  |
| M8           | 16mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-100-C     | W503830-S439  |
| M8           | 16mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-D     | W503930-S306  |
| M8           | 16mm    | 22.6mm  | 16mm    | —    | —      | —       | 1    | 8.8  | WC-110-D     | W503930-S301  |
| M8           | 16mm    | 22.6mm  | 16mm    | —    | —      | —       | 1    | 8.8  | WC-110-E     | W503930-S427  |
| M8           | 20mm    | 19.1mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-B     | W503931-S436  |
| M8           | 20mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-B     | W503931-S301  |
| M8           | 20mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-B     | W503931-S309  |
| M8           | 20mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-B     | W503931-S438  |
| M8           | 20mm    | 25.65mm | 11.54mm | —    | —      | —       | 1    | 9.8  | WC-110-D     | N811453-S309  |
| M8           | 20mm    | 25.65mm | 11.54mm | —    | —      | —       | 1    | 9.8  | WC-110-E     | N811453-S301  |
| M8           | 25mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-S     | W503932-S1303 |
| M8           | 25mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-T     | W503932-S301  |
| M8           | 25mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-T     | W503932-S309M |
| M8           | 25mm    | 22.6mm  | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-T     | W503932-S427  |
| M8           | 40mm    | 17mm    | 10mm    | —    | —      | —       | 1    | 8.8  | WC-110-X     | W704961-S437  |
| M10          | 25mm    | 25.8mm  | 13mm    | —    | —      | —       | 1    | 8.8  | WC-110-U     | W503932-S426  |
| M6           | 18.75mm | 18.0mm  | 5mm     | 8mm  | 9.23mm | 19.43mm | 2    | 10.9 | WC-110-LA    | W705382-S301  |
| M6           | 20mm    | 1.2mm   | —       | 10mm | —      | 14mm    | 2    | 8.8  | WC-111-C     | W700099-S309M |
| M6           | 20mm    | 1.2mm   | —       | 10mm | —      | 14mm    | 2    | 8.8  | WC-111-C     | W700099-S303  |
| M6           | 20mm    | 2.21mm  | 6.9mm   | 8mm  | 9.23mm | 14.2mm  | 2    | 10   | WC-111-CD    | W706681-S438  |
| M6           | 20.3mm  | 1.88mm  | 5.00mm  | 8mm  | 9.23mm | 19.43mm | 2    | 8.8  | WC-111-D     | W704734-S301  |
| M6           | 20.3mm  | 1.88mm  | 5.00mm  | 8mm  | 9.23mm | 19.43mm | 2    | 8.8  | WC-111-D     | W704734-S309U |
| M6           | 20.3mm  | 1.88mm  | 5.00mm  | 8mm  | 9.23mm | 19.43mm | 2    | 8.8  | WC-111-D     | W704734-S438  |
| M6           | 20.3mm  | 1.88mm  | 5.00mm  | 8mm  | 9.23mm | 19.43mm | 2    | 8.8  | WC-111-D     | W704734-S439  |
| M6           | 20.42mm | —       | 5mm     | 8mm  | 8.00mm | 19.43mm | 2    | 8.8  | WC-111-B     | W705323-S     |
| M6           | 27.5mm  | 2.26mm  | 5mm     | 8mm  | 9.23mm | 19.43mm | 2    | 9.8  | WC-111-A     | N807014-S307  |

PH-608

**SCREW and LOCKWASHER — HEXAGON HEAD**


TYPE 1



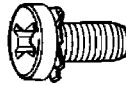
TYPE 2

PH608

**National Coarse Thread**

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|------|--------------|-------|-------------|
| 1/4"     | 20     | 5/8"   | 1    | U-3-A        | 5     | 57621-S2    |
| 5/16"    | 18     | 5/8"   | 1    | U-9-E        | 5     | 57632-S2    |
| 5/16"    | 18     | 5/8"   | 1    | U-9-EA       | 5     | 57632-S426  |
| 5/16"    | 18     | 5/8"   | 1    | U-9-EA       | 5     | 57632-S439  |
| 5/16"    | 18     | 3/4"   | 1    | U-10-A       | 5     | 57633-S2    |
| 5/16"    | 18     | 1-1/4" | 1    | U-14-Z       | 5     | 57636-S2    |
| 3/8"     | 16     | 3/4"   | 1    | U-16-A       | 5     | 57644-S2    |
| 7/16"    | 14     | 7/8"   | 1    | U-18-B       | 5     | 57658-S2    |
| 7/16"    | 14     | 1-1/2" | 1    | U-18-H       | 5     | 57661-S2    |
| 1/4"     | 20     | 1-1/4" | 2    | U-2-D        | 2     | 55651-S2    |

PH-607

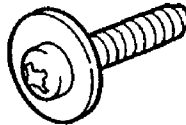
**SCREW and LOCKWASHER ASSY. — PAN HEAD — CROSS RECESSED — EXTERNAL TOOTH**


PH607

**National Coarse Thread**

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| 1/4"     | 20     | 3/4"   | U-150-C      | ★57307-S36  |

PH-793

**SCREW and WASHER ASSY. — PAN HEAD — CROSS RECESSED**


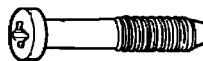
TYPE 1

PH-793

**National Coarse Thread**

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 8    | 18     | 3/4"   | U-150-M      | 56922-S424  |

PH-596

**SCREW — PAN HEAD — CROSS RECESSED — POINTED**


PH596

**National Coarse Thread**

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 8    | 18     | 3/4"   | U-151-G      | 55998-S100  |



# Standard and Utility Parts Catalog

**PH-702      SCREW — SELF TAPPING — FLAT HEAD — CROSS RECESSED**



TYPE 1

PH-702  
12/19/2002

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| No. 8    | 18     | 1.0    | 1    | U-202-A      | 55929-S58   |

**PH-748      SCREW — SELF TAPPING — HEXAGON CONICAL WASHER HEAD**

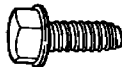


PH748

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER  |
|----------|--------|--------|--------------|--------------|
| No. 8    | 20     | 20mm   | U-285-H      | W704901-S426 |
| No. 8    | 20     | 20mm   | U-285-HA     | W704901-S301 |

| Metric |        |      |         |              |
|--------|--------|------|---------|--------------|
| M8     | 1.25mm | 28mm | 070-020 | N802455-S426 |

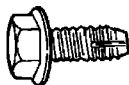
**PH-617      SCREW — SELF TAPPING — HEXAGON WASHER HEAD**



PH617

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 10   | 16     | 1/2"   | U-269-C      | 42367-S2    |
| 1/4"     | 4      | 1/2"   | 070-020      | 31527-S36   |
| 1/2"     | 13     | 2.0    | U-269-E      | 390914-S426 |

**PH-618      SCREW — SELF TAPPING — HEXAGON WASHER HEAD — SLOTTED**



PH618

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 12   | 24     | 1/2"   | U-261-A      | 40920-S2    |
| 1/4"     | 20     | 1/2"   | U-262        | 40927-S8    |
| 5/16"    | 18     | 3/4"   | U-265-F      | 40949-S2    |
| 5/16"    | 18     | 1"     | U-265-H      | 40975-S2    |
| 3/8"     | 16     | 3/4"   | U-265-C      | 40954-S2    |

**PH-614**
**SCREW — SELF TAPPING — HEXAGON WASHER HEAD — POINTED**

**PH614**

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 8    | 18     | 1/2"   | U-254-B      | 55907-S2    |
| No. 10   | 12     | 1/2"   | U-248-C      | 42127-S2    |
| No. 10   | 12     | 7/8"   | U-252-B      | 42147-S2    |
| 1/4"     | 14     | 1/2"   | U-254-E      | 55981-S2    |
| 1/4"     | 14     | 5/8"   | U-254-EC     | 55876-S36   |
| 1/4"     | 14     | 3/4"   | U-254-F      | 55914-S2    |
| 1/4"     | 14     | 1"     | U-254-G      | 55915-S2    |
| 1/4"     | 14     | 1-1/4" | U-254-H      | 55916-S2    |

**PH-634**
**SCREW — SELF TAPPING — OVAL HEAD — CROSS RECESSED — POINTED**

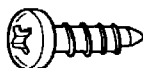
**PH634**

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 8    | 18     | 3/4"   | U-316-D      | 55974-S45X  |
| No. 8    | 18     | 3/4"   | U-316-E      | 55962-S36M  |
| No. 8    | 18     | 1"     | U-317-B      | 55935-S2    |
| No. 8    | 18     | 1-3/4" | U-317-D      | 55978-S46   |

**PH-636**
**SCREW — SELF TAPPING — PAN HEAD — CROSS RECESSED**

**PH636**

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 8    | 18     | 1"     | U-365-F      | 52814-S36B  |
| No. 8    | 32     | 1/2"   | U-366-A      | 51764-S40   |

**PH-637**
**SCREW — SELF TAPPING — PAN HEAD — CROSS RECESSED — POINTED**

**PH637**

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 8    | 18     | 1/2"   | U-380-B      | 55927-S2    |
| No. 8    | 18     | 1/2"   | U-380-B      | 55927-S58   |
| No. 8    | 18     | 3/4"   | U-380-A      | 55928-S2    |
| No. 8    | 18     | 7/8"   | U-380-C      | 56010-S     |
| No. 8    | 18     | 1"     | U-380-CA     | 55929-SW    |
| No. 8    | 18     | 1"     | U-380-CB     | 55929-S424  |
| No. 8    | 18     | 1-1/4" | U-380-D      | 56000-S     |
| No. 8    | 18     | 1-1/4" | U-380-D      | 56000-S300  |
| No. 8    | 18     | 1-1/2" | U-380-G      | 55931-S2    |
| No. 10   | 16     | 1/2"   | U-382-AA     | 52787-S61   |

# Standard and Utility Parts Catalog

PH-739

SCREW — SELF TAPPING — ROUND WASHER HEAD — CROSS RECESSED



PH739

| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 8    | 18     | 1/2"   | U-413        | 56910-S2    |
| No. 8    | 18     | 1/2"   | U-413        | 56910-S424  |
| No. 8    | 18     | 1/2"   | U-413-AB     | 56902-S36B  |
| No. 8    | 18     | 1/2"   | U-413-AB     | 56902-S55   |
| No. 8    | 18     | 1/2"   | U-413-AB     | 56902-S61   |
| No. 8    | 18     | 1/2"   | U-413-AC     | 56920-S     |
| No. 8    | 18     | 1/2"   | U-413-AC     | 56920-S36B  |
| No. 8    | 18     | 1/2"   | U-413-K      | 385408-S61  |
| No. 8    | 18     | 5/8"   | U-505        | 56929-S2    |
| No. 8    | 18     | 5/8"   | U-413-H      | 56903-S2    |
| No. 8    | 18     | 5/8"   | U-413-JA     | 56911-S36   |
| No. 8    | 18     | 5/8"   | U-413-JA     | 56911-S61   |
| No. 8    | 18     | 1"     | U-413-E      | 56904-S36   |
| No. 8    | 18     | 1"     | U-413-E      | 56904-S2    |
| No. 8    | 18     | 1"     | U-413-G      | 56914-S2    |
| No. 8    | 18     | 1"     | U-413-GA     | 56914-S435  |
| No. 8    | 18     | 1-1/2" | U-413-H      | 56915-S435  |
| No. 8    | 18     | 1"     | U-413-GB     | 56914-S424  |
| No. 8    | 18     | 1"     | U-413-GC     | 56914-S61   |
| No. 8    | 18     | 1-1/2" | U-415        | 56908-S9    |

PH-606

SEAL — RUBBER “O” RING



PH606

| INSIDE DIAMETER | OUTSIDE DIAMETER | LOCATOR CODE | PART NUMBER             |
|-----------------|------------------|--------------|-------------------------|
| 1/4"            | 3/8"             | T-1-AD       | 87004-S92               |
| 5/16"           | 15/32"           | T-1-AE       | 87006-S96               |
| 5/16"           | 15/32"           | T-1-AL       | 87006-S94               |
| 7/16"           | 37/64"           | T-1-DG       | 87010-S94               |
| 7/16"           | 37/64"           | T-1-DH       | 87010-S96               |
| 9/16"           | 11/16"           | T-1-AA       | 87014-S91<br>(YF-689)*  |
| 9/16"           | 49/64"           | T-1-A        | 87034-S94               |
| 5/8"            | 3/4"             | T-1-FB       | 87016-S91<br>(YF-697)*  |
| 11/16"          | 27/32"           | T-1-CA       | 87018-S94<br>(YF-690)*  |
| 11/16"          | 57/64"           | T-1-C        | 87036-S94               |
| 11/16"          | 27/32"           | T-1-CC       | 87018-S95               |
| 11/16"          | 27/32"           | T-1-CB       | 87018-S100              |
| 39/64"          | 13/16"           | T-1-F        | 87035-S92<br>(YF-1189)* |
| 51/64"          | 1"               | T-2-EB       | 87038-S91               |
| 7/8"            | 1-1/8"           | T-1-EG       | 87051-S96               |
| 1-1/8"          | 1-15/64"         | T-2-CD       | 87043-S95               |
| 1-1/16"         | 1-27/64"         | T-2-CC       | 87054-S94               |
| 1-1/4"          | 1-23/64"         | T-2-CB       | 87045-S91<br>(YF-693)*  |
| 1-5/16"         | 1-37/64"         | T-2-DA       | 87058-S96               |
| 1-1/2"          | 1-3/4"           | T-2-DF       | 87061-S94               |
| 1-51/64"        | 1-29/32"         | T-2-F        | 87134-S100              |
| 2-3/16"         | 2-3/8"           | T-6-A        | 87140-S95               |
| 2-5/8"          | 2-53/64"         | T-38         | 87147-S91               |

\* Motorcraft Number

PH-504

SPRING — RETAINER

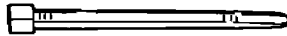


PH504

| DIAMETER | A      | LOCATOR CODE | PART NUMBER |
|----------|--------|--------------|-------------|
| 5/32"    | 25/64" | R-3-A        | 74273-S2    |
| 9/16"    | 1-1/4" | R-5          | 74279-S     |

PH-745

STRAP — ADJUSTABLE BUNDLING

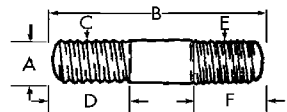


PH745

| BUNDLING DIAMETER | NOMINAL LENGTH | LOCATOR CODE | PART NUMBER |
|-------------------|----------------|--------------|-------------|
| 1"                | 4-1/2"         | Y-5          | 95832-S     |

PH-518

STUD — SCREW



PH518

| A        | B              | C              | D              | E              | F              | LOCATOR CODE | PART NUMBER |
|----------|----------------|----------------|----------------|----------------|----------------|--------------|-------------|
| DIAMETER | OVERALL LENGTH | TAP END THREAD | TAP END LENGTH | NUT END THREAD | NUT END LENGTH |              |             |
| 3/8"     | 4-7/8"         | 16             | 3/4"           | 24             | 1"             | W-25         | 88624-S     |

PH-646

WASHER — LOCK — MEDIUM



PH646

| BOLT SIZE | OUTSIDE DIAMETER | THICKNESS | LOCATOR CODE | PART NUMBER |
|-----------|------------------|-----------|--------------|-------------|
| 1/4"      | 1/2"             | 1/16"     | X-62         | 34805-S8    |
| 5/16"     | 19/32"           | 5/64"     | X-64         | 34806-S2    |
| 5/16"     | 19/32"           | 3/32"     | X-64-A       | 34791-S36   |
| 3/8"      | 11/16"           | 3/32"     | X-66         | 34807-S8    |
| 3/8"      | 11/16"           | 3/32"     | X-66-A       | 34792-S2    |
| 7/16"     | 3/4"             | 7/64"     | X-67-A       | 34793-S2    |
| 1/2"      | 7/8"             | 1/8"      | X-68         | 34809-S8    |

PH-1

BALL



PH1

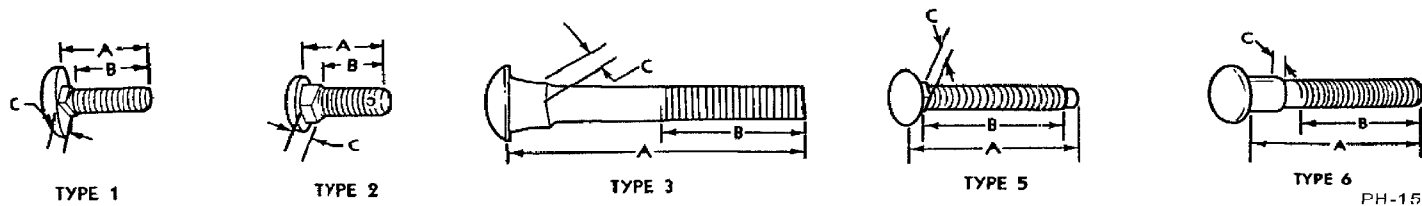
| DIAMETER | MATERIAL | LOCATOR CODE | PART NUMBER |
|----------|----------|--------------|-------------|
| 1/4"     | Steel    | AA-9         | 353351-S    |
| 5/16"    | Steel    | AA-10        | 353081-S    |

## Metric

|     |       |      |           |
|-----|-------|------|-----------|
| M11 | Steel | AA-5 | E890100-S |
|-----|-------|------|-----------|

# Standard and Utility Parts Catalog

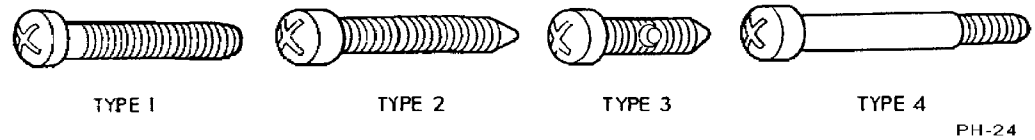
## PH-15 BOLT or SCREW — CARRIAGE



| National Coarse Thread |        |    |        |      |      |              |             |
|------------------------|--------|----|--------|------|------|--------------|-------------|
| DIAMETER               | THREAD | A  | B      | C    | TYPE | LOCATOR CODE | PART NUMBER |
| 1/2"                   | 13     | 4" | 2-1/2" | 1/2" | 3    | BB-648-YJ    | 390270-S36  |

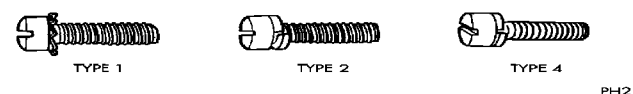
| Metric       |         |        |        |      |              |              |
|--------------|---------|--------|--------|------|--------------|--------------|
| NOMINAL SIZE | A       | B      | C      | TYPE | LOCATOR CODE | PART NUMBER  |
| M10          | 33.5mm  | 30.0mm | 1.50mm | 1    | AB-302-HA    | N807388-S    |
| M12          | 40mm    | 37.3mm | 2.7mm  | 1    | AB-307-H     | N800883-S55  |
| M12          | 76.2mm  | 41.2mm | 13.1mm | 3    | AB-306-K     | N803020-S40  |
| M12          | 88.9mm  | 50.8mm | 13.1mm | 3    | AB-306-L     | N803021-S40  |
| M6           | 51.25mm | 47.0mm | 6.0mm  | 5    | AB-305-EA    | W708417-S424 |
| M6           | 55.0mm  | 50.0mm | 4.5mm  | 5    | AB-305-R     | N804110-S2   |
| M6           | 60mm    | 57mm   | 5mm    | 5    | AB-305-A     | N800905-S2   |
| M6           | 70.0mm  | 67.0mm | —      | 5    | AB-305-N     | N805549-S60  |
| M10          | 50mm    | 25mm   | 8.2mm  | 6    | AB-305-P     | W703102-S301 |
| M12          | 88.9mm  | 50.8mm | 16.6mm | 6    | AB-310       | N803022-S40  |
| M12          | 108.mm  | 50.8mm | 16.6mm | 6    | AB-310-A     | N803023-S40  |

## PH-24 BOLT or SCREW — FILLISTER HEAD — CROSS RECESSED

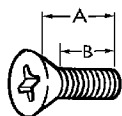
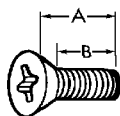
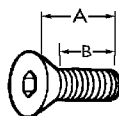
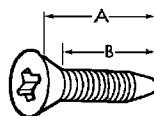
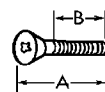


| Metric Coarse Thread |        |      |              |             |
|----------------------|--------|------|--------------|-------------|
| NOMINAL SIZE         | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
| M4                   | 16mm   | 1    | AB-215-E     | E603125-S72 |
| M6                   | 16mm   | 1    | AB-223-F     | N603264-S2  |

## PH-2 BOLT or SCREW — FILLISTER HEAD with LOCKWASHER



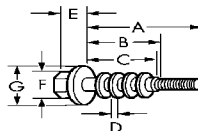
| National Fine Thread |        |        |      |              |             |
|----------------------|--------|--------|------|--------------|-------------|
| DIAMETER             | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
| No. 12               | 28     | 3/4"   | 2    | BB-78        | ★359710-S   |

**PH-16**
**BOLT or SCREW — FLAT HEAD**

**TYPE 1**

**TYPE 2**

**TYPE 3**

**TYPE 4**

**TYPE 6**
**PH16**
**Metric**

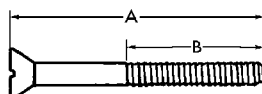
| NOMINAL SIZE | LENGTH | A       | B       | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|--------|---------|---------|------|--------------|---------------|
| M4           | 6mm    | 5mm     | —       | 1    | AB-321-R     | W701894-S304  |
| M4           | 13mm   | —       | 9mm     | 3    | AB-322-G     | W706150-S424  |
| M8           | 1.25mm | 24mm    | 20mm    | 3    | BB-98        | W708733-S439  |
| M8           | 1.25mm | 30.42mm | —       | 3    | BB-98-A      | W709726-S424  |
| M8           | 16mm   | —       | —       | 3    | AB-328-C     | W505741-S426  |
| M6           | 32.5mm | 32.5mm  | \$8.5mm | 4    | AB-328-F     | W709388-S900  |
| M6           | 14.9mm | 14.9mm  | 8.4mm   | 6    | AB-328-B     | N805653-S100† |

† Includes Sealer

\$ Adhesive

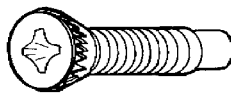
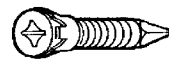
**PH-3**
**BOLT and RING**

**TYPE 1**
**PH-3**  
12/09/2003

| NOMINAL SIZE | A      | B      | C      | D     | #RINGS | E      | F       | G      | LOCATOR CODE | PART NUMBER  |
|--------------|--------|--------|--------|-------|--------|--------|---------|--------|--------------|--------------|
| M16          | 94.0mm | 51.0mm | 40.0mm | 4.0mm | 4      | 15.1mm | 22.58mm | 32.8mm | BB-120-C     | W707523-S436 |

**PH-27**
**BOLT or SCREW — FLAT HEAD**

**PH27**
**National Coarse Thread**

| DIAMETER | THREAD | A    | B     | LOCATOR CODE | PART NUMBER |
|----------|--------|------|-------|--------------|-------------|
| 1/2"     | 13     | 3/4" | 7/32" | BB-89        | ★355812-S2  |

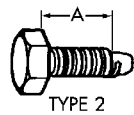
**PH-11**
**BOLT or SCREW — FLAT HEAD with LOCKWASHER — CROSS RECESSED — EXTERNAL TOOTH**

**TYPE 1**

**TYPE 2**

**TYPE 3**
**PH-11**
**National Coarse Thread**

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| 5/16"    | 24     | 1-1/4" | 1    | BB-109       | ★354488-S8  |

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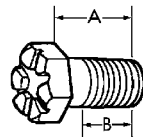
**PH-30      BOLT — HEXAGON HEAD**



PH30

| Metric   |        |      |      |              |     |              |
|----------|--------|------|------|--------------|-----|--------------|
| DIAMETER | THREAD | A    | TYPE | LOCATOR CODE | P/C | PART NUMBER  |
| M6       | 11     | 75mm | 2    | AB-350-F     | 8.8 | W707193-S306 |
| M6       | 11     | 75mm | 2    | AB-350-F     | 8.8 | W707193-S900 |

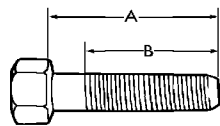
**PH-18      BOLT — HEXAGON HEAD — SELF LOCKING — SLOTTED**



PH18

| Metric       |        |      |              |      |              |
|--------------|--------|------|--------------|------|--------------|
| NOMINAL SIZE | A      | B    | LOCATOR CODE | P/C  | PART NUMBER  |
| M10          | 35mm   | 35mm | AB-18-C      | 10.9 | N601790-S100 |
| M10          | 37.8mm | —    | AB-18-G      | 10.9 | W709030-S300 |

**PH-29      BOLT — HEXAGON HEAD**



PH29

| National Coarse Thread |        |          |          |              |       |             |
|------------------------|--------|----------|----------|--------------|-------|-------------|
| DIAMETER               | THREAD | A        | B        | LOCATOR CODE | GRADE | PART NUMBER |
| 1/4"                   | 20     | 1/2"     | 1/4"     | BB-123-AB    | 5     | 304624-S36  |
| 1/4"                   | 20     | 1-1/2"   | 3/4"     | BB-125-A     | 5     | 304756-S36M |
| 5/16"                  | 18     | 1/2"     | 1/2"     | BB-136-C     | 5     | 304626-S2   |
| 5/16"                  | 18     | 1"       | 1"       | BB-136-A     | 5     | 304682-S36  |
| 5/16"                  | 18     | 1.41"    | 1.06"    | BB-140-D     | 8     | 388393-S36  |
| 5/16"                  | 18     | 3-15/16" | 7/8"     | BB-277-F     | 5     | 388895-S2   |
| 3/8"                   | 16     | 1-1/8"   | 1"       | BB-155-A     | 8     | 354135-S7-8 |
| 3/8"                   | 16     | 1-3/4"   | 1"       | BB-157-D     | 5     | 375409-S8   |
| 3/8"                   | 16     | 2-7/16"  | 11/16"   | BB-158-C     | 8     | 389421-S2   |
| 3/8"                   | 16     | 4"       | 4"       | BB-169-B     | 5     | 300916-S2   |
| 7/16"                  | 14     | 4-9/16"  | 2-11/16" | BB-187-EE    | 8     | 388272-S190 |
| 7/16"                  | 14     | 4-9/16"  | 2-11/16" | BB-187-EE    | 8     | 388272-S192 |
| 7/16"                  | 14     | 5"       | 1-13/32" | BB-187-EC    | 8     | 389483-S36  |
| 1/2"                   | 13     | 2"       | 1-15/16" | BB-195-E     | 8     | 383896-S2   |
| 1/2"                   | 13     | 2-3/4"   | 2-11/16" | BB-196-D     | 8     | 385123-S2   |
| 9/16"                  | —      | —        | 12       | BB-200-GG    | 5     | 56604-S301  |
| 3/4"                   | 10     | 3"       | 2"       | BB-202-BJ    | 8     | 389525-S2   |

| National Fine Thread |    |          |          |           |   |           |
|----------------------|----|----------|----------|-----------|---|-----------|
| 3/4"                 | 10 | 4"       | —        | BB-203    | 8 | 58749-S2  |
| 3/4"                 | 10 | 7-3/4"   | 2-19/32" | BB-203-HC | 8 | 390386-S2 |
| 3/4"                 | 10 | 9-1/4"   | 4"       | BB-203-L  | 8 | 388727-S2 |
| 5/8"                 | 18 | 2"       | 1-1/2"   | BB-273-A  | 8 | 377850-S  |
| 3/4"                 | 16 | 1-25/32" | 1-1/2"   | BB-278-K  | 0 | 377852-S  |

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BOLT — HEXAGON HEAD (Cont'd)

| Metric Coarse Thread |         |        |              |               |               |
|----------------------|---------|--------|--------------|---------------|---------------|
| NOMINAL SIZE         | A       | B      | LOCATOR CODE | P/C           | PART NUMBER   |
| M4                   | 12mm    | 11.2mm | AB-4-F       | —             | W708982-S424  |
| M4                   | 12mm    | 12mm   | AB-4-B       | —             | W710485-S424  |
| M4.2                 | 19mm    | —      | AB-4-L       | —             | W705796-S424  |
| M5                   | 14mm    | 14mm   | AB-4-BG      | 10            | W709474-S439  |
| M5                   | 14mm    | —      | AB-4-BA      | 9             | N605758-S58   |
| M5                   | 16mm    | —      | AB-20-LB     | 8             | W708154-S309  |
| M5                   | 18mm    | —      | AB-20-LC     | 9             | N605879-S424  |
| M5                   | 20.5mm  | —      | AB-4-LA      | 8             | W705398-S437  |
| M5                   | 27.5mm  | 25mm   | AB-4-LB      | —             | W706175-S309  |
| M5                   | 27.5mm  | 25mm   | AB-4-LC      | —             | W706175-S437  |
| M5                   | 30mm    | 16mm   | AB-5-LA      | 8.8           | W702410-S309  |
| M6                   | 1.0mm   | 22.5mm | AB-16-BG     | 8             | N605892-S437  |
| M6                   | 1.0mm   | 35.5mm | AB-16-BH     | 8             | N804601-S437  |
| M6                   | 14mm    | 14mm   | AB-16-B      | 9.8,9.81,9.82 | N811181-S437  |
| M6                   | 14mm    | 14mm   | AB-16-J      | 8             | W709891-S437  |
| M6                   | 14mm    | 14mm   | AB-16-E      | 8.8           | E602165-S82   |
| M6                   | 14mm    | 14mm   | AB-16-A      | 8.8           | E602165-S72   |
| M6                   | 16mm    | 14mm   | AB-16-BA     | 8.8           | W710236-S307  |
| M6                   | 16mm    | 16mm   | AB-16-BJ     | 8.8           | W500013-S424  |
| M6                   | 16mm    | 16mm   | AB-16-BL     | 8.8           | W500013-S426  |
| M6                   | 16mm    | 16mm   | AB-16-BN     | 8.8           | W506013-S439  |
| M6                   | 16mm    | 18mm   | AB-16-BE     | 9.8           | N807178-S1000 |
| M6                   | 16mm    | —      | AB-16-BF     | 8.8           | W500013-S309  |
| M6                   | 16mm    | 16mm   | AB-16-BM     | 8.8           | W500013-S307  |
| M6                   | 16mm    | 16mm   | AB-16-BK     | 8.8           | W500013-S309  |
| M6                   | 19mm    | —      | AB-16-CA     | —             | W708300-S424  |
| M6                   | 20mm    | 13mm   | AB-16-HC     | 8             | W705604-S439  |
| M6                   | 20mm    | 20mm   | AB-16-BGA    | 8.8           | W506014-S309  |
| M6                   | 20mm    | —      | AB-7-A       | 10.0          | W706897-S900  |
| M6                   | 20mm    | 20mm   | AB-16-BGA    | 8.8           | W506014-S301  |
| M6                   | 20mm    | 20mm   | AB-16-BGA    | 8.8           | W506014-S436  |
| M6                   | 20mm    | 20mm   | AB-16-BGA    | 8.8           | W506014-S439  |
| M6                   | 20mm    | 20mm   | AB-7         | 8.8           | E602167-S72   |
| M6                   | 20mm    | 20mm   | AB-26-H      | 9.8           | N605518-S436  |
| M6                   | 23.25mm | 20mm   | AB-26-HD     | 8.8           | W701719-S437  |
| M6                   | 25.42mm | —      | AB-26-HJ     | 10.9          | W707231-S436  |
| M6                   | 29mm    | —      | AB-26-HB     | 8.8           | W701939-S309  |
| M6                   | 30mm    | 18mm   | AB-26-A      | 8.8           | W500100-S426  |
| M6                   | 30mm    | 30mm   | AB-26-HA     | 8.8           | W708027-S300  |
| M6                   | 35mm    | 20mm   | AB-26-B      | 8.8           | E600112-S     |
| M6                   | 37.5mm  | —      | AB-26-DB     | 8.8           | W705438-S300  |
| M6                   | 50mm    | 18mm   | AB-26-CA     | 8.8           | W500104-S309  |
| M6                   | 50mm    | 18mm   | AB-26-DA     | 8.8           | W500104-S426  |
| M6                   | 52mm    | 18mm   | AB-26-FA     | 8.8           | W703133-S1300 |
| M6                   | 63mm    | 63mm   | AB-26-G      | 8.8           | W705271-S309  |
| M6                   | 70mm    | 30mm   | AB-157-A     | 8.8           | W703135-S300  |
| M6                   | 96mm    | 40mm   | AB-12-G      | 10.9          | W708028-S300  |
| M6.35                | 20mm    | 20mm   | AB-12-H      | 9.8           | 304680-S2     |
| M8                   | 12mm    | 12mm   | AB-16-DA     | 9.8           | N605783-S141  |
| M8                   | 14mm    | 14mm   | AB-16-HA     | 10.9          | W506421-S436  |
| M8                   | 14mm    | —      | AB-16-HC     | —             | W708234-S309  |
| M8                   | 14mm    | —      | AB-16-HE     | 9             | N605784-S437  |
| M8                   | 14mm    | —      | AB-16-HE     | 9             | N605784-S309  |
| M8                   | %14mm   | —      | AB-16-HD     | 8.8           | W700718-S309  |
| M8                   | %14mm   | —      | AB-16-HD     | 8.8           | W700718-S437  |
| M8                   | 16mm    | 16mm   | AB-16-GG     | 9.8           | N605785-S2    |
| M8                   | 16mm    | 16mm   | AB-16-GG     | 9.8           | N605785-S1036 |
| M8                   | 16mm    | 16mm   | AB-16-GG     | 9.8           | N605785-S426  |

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BOLT — HEXAGON HEAD (Cont'd)

Metric Coarse Thread (Cont'd)

| NOMINAL SIZE | A        | B      | LOCATOR CODE | P/C           | PART NUMBER  |
|--------------|----------|--------|--------------|---------------|--------------|
| M8           | 16mm     | 16mm   | AB-16-GH     | 8             | W710344-S439 |
| M8           | \$16mm   | 16mm   | AB-12-GK     | 10.9          | W708743-S439 |
| M8           | 17mm     | —      | AB-16-DB     | —             | W708113-S426 |
| M8           | 20mm     | 20mm   | AB-17-G      | 9.8,9.81,9.82 | N806342-S301 |
| M8           | 20mm     | 20mm   | AB-17-D      | 8.8           | E602187-S72  |
| M8           | 20mm     | 20mm   | AB-36-H      | 10            | W710289-S439 |
| M8           | 20mm     | 20mm   | AB-36-HB     | 8.9           | W702008-S301 |
| M8           | 20mm     | 20mm   | AB-36-HB     | 8.9           | W702008-S309 |
| M8           | 20mm     | —      | AB-36-HA     | 010           | W707818-S437 |
| M8           | 25mm     | —      | AB-36-M      | 10.9          | W701209-S303 |
| M8           | 25mm     | —      | AB-36-N      | 8.8           | W703425-S304 |
| M8           | %25.42mm | —      | AB-156-BG    | 8.8           | W708829-S426 |
| M8           | %25.42mm | —      | AB-156-BG    | 8.8           | W708829-S439 |
| M8           | 28mm     | 21mm   | AB-20-LA     | 8.8           | W705195-S426 |
| M8           | 28mm     | 21mm   | AB-20-LA     | 8.8           | W705195-S439 |
| M8           | 30mm     | —      | AB-20-CJ     | 9.8,9.81,9.82 | N805164-S309 |
| M8           | 30mm     | —      | AB-20-CE     | 8.8           | W500225-S424 |
| M8           | 30mm     | 1.25mm | AB-20-CC     | 8.8           | W704812-S309 |
| M8           | 33mm     | —      | AB-20-CG     | 9.8,9.81,9.82 | N808920-S309 |
| M8           | 35mm     | 22mm   | AB-36-KA     | 8.8           | W500110-S426 |
| M8           | 35mm     | 22mm   | AB-36-KB     | 8.8           | W500110-S300 |
| M8           | 35mm     | 22mm   | AB-36-KC     | 8.8           | W500110-S437 |
| M8           | 35mm     | —      | AB-36-R      | 8.8           | W702503-S309 |
| M8           | 35mm     | 30mm   | AB-36-K      | 10.9          | W710306-S440 |
| M8           | \$38mm   | —      | AB-36-KD     | 10            | W706825-S426 |
| M8           | 40mm     | —      | AB-158-AB    | —             | W708100-S426 |
| M8           | 41mm     | 37mm   | AB-158-A     | 8.8           | W710119-S437 |
| M8           | 42mm     | \$14mm | AB-158-AA    | 10.9          | W710414-S439 |
| M8           | \$42mm   | —      | AB-158-AB    | 9.8           | N811524-S102 |
| M8           | 45mm     | 36mm   | AB-158-B     | 8.8           | E600214-S72  |
| M8           | 50mm     | 30mm   | AB-20-KK     | 9.8           | N605663-S100 |
| M8           | 50mm     | 42mm   | AB-20-KN     | 9.8           | N606043-S2   |
| M8           | 55mm     | 16mm   | AB-20-KP     | 9.8           | N808117-S100 |
| M8           | 55mm     | 28.7mm | AB-158-D     | 10.9          | E800691-S200 |
| M8           | 60mm     | —      | AB-20-DC     | 8             | W706834-S309 |
| M8           | 60mm     | 33.7mm | AB-20-DB     | 10.9          | N601217-S2   |
| M8           | 65mm     | 22mm   | AB-20-D      | 8.8           | W500316-S430 |
| M8           | 69mm     | \$14mm | AB-20-DA     | 10.9          | W710415-S439 |
| M8           | 70mm     | —      | AB-20-E      | 8             | W704428-S309 |
| M8           | 70mm     | 35mm   | AB-20-F      | 10.9          | N601219-S2   |
| M8           | 72mm     | 25mm   | AB-20-G      | 8.8           | W710254-S437 |
| M8           | 90mm     | —      | AB-20-LE     | 8             | W706284-S309 |
| M8           | 100mm    | 32.0mm | AB-20-LD     | 8.8           | W710260-S437 |
| M8           | 100mm    | 39mm   | AB-20-LH     | 10.9          | N601223-S2   |
| M8           | 115mm    | 40mm   | AB-20-NB     | 8.8           | W704750-S437 |
| M8           | 115mm    | 40mm   | AB-20-NG     | 8.8           | W704750-S309 |
| M10          | 16mm     | 16mm   | AB-27-EA     | 10.9          | W506431-S424 |
| M10          | 20mm     | —      | AB-27-RA     | 10.0          | W708175-S424 |
| M10          | 20mm     | 5mm    | AB-25-A      | —             | W710512-S900 |
| M10          | 20mm     | 20mm   | AB-27-R      | 9.8           | N605544-S2   |
| M10          | 30mm     | —      | AB-27-G      | 10.0          | W708053-S424 |
| M10          | 30mm     | —      | AB-27-S      | —             | N807851-S426 |
| M10          | 30mm     | 25mm   | AB-27-D      | 10.9          | N802423-S52  |
| M10          | 30mm     | 30mm   | AB-27-M      | 10            | W709622-S424 |
| M10          | 30mm     | 30mm   | AB-27-H      | 9.8           | N605546-S2   |
| M10          | 31mm     | —      | AB-27-K      | —             | N806219-S437 |
| M10          | 35mm     | 22.5mm | AB-27-J      | 8.8           | W710353-S439 |
| M10          | \$35mm   | —      | AB-33-BB     | 10.9          | W709234-S426 |
| M10          | 40mm     | 25mm   | AB-27-LA     | 10.9          | N601313-S100 |
| M10          | 40mm     | 30mm   | AB-27-K      | 10            | W710444-S439 |

\$ Adhesive Coated

% Includes Plastic Patch

(continued)

# Standard and Utility Parts Catalog

25

PH-29

BOLT — HEXAGON HEAD (Cont'd)

| Metric Coarse Thread (Cont'd) |        |        |              |               |                |
|-------------------------------|--------|--------|--------------|---------------|----------------|
| NOMINAL SIZE                  | A      | B      | LOCATOR CODE | P/C           | PART NUMBER    |
| M10                           | 43.5mm | —      | AB-27-KA     | 9.8,9.81,9.82 | N805900-S36B   |
| M10                           | 43.5mm | —      | AB-27-KA     | 9.8,9.81,9.82 | N805900-S437   |
| M10                           | 50mm   | 25mm   | AB-140-YY    |               | W707429-S301   |
| M10                           | 50mm   | 26mm   | AB-33-CF     | 10.9          | N601315-S2     |
| M10                           | 53.5mm | 49.0mm | AB-33-CZ     | 9.8           | N802253-S426   |
| M10                           | 55mm   | 48.6mm | AB-33-GA     | 10.9          | W709593-S426   |
| M10                           | 56mm   | 30mm   | AB-140-Y     |               | W706605-S301   |
| M10                           | 58mm   | 20mm   | AB-140-W     |               | W707102-S309   |
| M10                           | 60mm   | 26mm   | AB-33-KH     | 8.8           | W500123-S309   |
| M10                           | 60mm   | 26mm   | AB-33-KH     | 8.8           | W500123-S415   |
| M10                           | 60mm   | 26mm   | AB-33-KH     | 8.8           | W500123-S424   |
| M10                           | 60mm   | 26mm   | AB-33-KH     | 8.8           | W500123-S425   |
| M10                           | 60mm   | 26mm   | AB-33-KH     | 8.8           | W500123-S439   |
| M10                           | 62mm   | 20mm   | AB-140-Q     |               | W706604-S301   |
| M10                           | 64mm   | 52.1mm | AB-33-JA     | 10.9          | W808474-S601   |
| M10                           | 65mm   | 30mm   | AB-33-JH     | 10.9          | N802904-S2     |
| M10                           | 68mm   | \$15mm | AB-33-JL     | 10.9          | W710428-S426   |
| M10                           | 96mm   | —      | AB-33-LP     | 8             | W708189-S426   |
| M10                           | 133mm  | 35mm   | AB-33-NE     | 10.9          | W709208-S426   |
| M10                           | 150mm  | 50mm   | AB-27-AA     | 8.8           | N601315-S      |
| M12                           | 30mm   | 25mm   | AB-34-A      | 10.9          | W707800-S900   |
| M12                           | 35mm   | \$17mm | AB-140-EE    | 10.9          | W701233-S439   |
| M12                           | 39mm   | 39mm   | AB-140-E     | 10.9          | W710117-S439   |
| M12                           | 40mm   | 17mm   | AB-140-ED    | 10.9          | ★ W710340-S439 |
| M12                           | 45mm   | \$20mm | AB-156-BA    | 10            | W705821-S426   |
| M12                           | 45mm   | 30mm   | AB-156-B     | 8.8           | N600414-S100   |
| M12                           | 45mm   | 36mm   | AB-140-EF    | 10.9          | W708186-S436   |
| M12                           | \$45mm | —      | AB-156-BF    | 8.8           | W706776-S309   |
| M12                           | 49.5mm | 28.0mm | AB-156-BE    | 10.9          | N808591-S2     |
| M12                           | 49.5mm | 28.0mm | AB-156-BE    | 10.9          | N808591-S436   |
| M12                           | 50mm   | 30mm   | AB-140-J     | 8.8           | N601415-S2     |
| M12                           | 50mm   | \$30mm | AB-140-JC    | 10.9          | W709529-S426   |
| M12                           | 50mm   | \$30mm | AB-140-F     | 10.9          | W708848-S439   |
| M12                           | 54.5mm | —      | AB-156-BK    | 9.8           | N605937-S426   |
| M12                           | 55mm   | 1.75mm | AB-156-BD    |               | N601416-S2     |
| M12                           | 55mm   | 30mm   | AB-140-JA    | 10.9          | W708742-S439   |
| M12                           | 57mm   | 37mm   | AB-140-JB    | 9.8           | N801942-S100   |
| M12                           | 60mm   | \$30mm | AB-140-K     | 10.9          | W708744-S439   |
| M12                           | 62mm   | 1.75mm | AB-156-BL    | 10            | W710132-S439   |
| M12                           | 63.5mm | 59.0mm | AB-156-BC    | 10.9          | W704966-S437   |
| M12                           | 65mm   | 30mm   | AB-156-BB    | 10.9          | W708737-S439   |
| M12                           | 65mm   | 30mm   | AB-156-E     | 9.8           | N605704-S2     |
| M12                           | 65mm   | 30mm   | AB-156-EA    | 9.8           | N605704-S436   |
| M12                           | 70mm   | 30mm   | AB-156-GB    | 10.9          | W500545-S426   |
| M12                           | 70mm   | 44.5mm | AB-156-GA    | 9.8           | N605705-S2     |
| M12                           | 70mm   | 44.5mm | AB-156-GA    | 9.8           | N605705-S426   |
| M12                           | 75mm   | —      | AB-170-AB    | 10.9          | W707336-S426   |
| M12                           | 75mm   | 30mm   | AB-170-A     | 10.9          | W500546-S426   |
| M12                           | 80mm   | 30mm   | AB-140-MA    | 10.9          | W500547-S426   |
| M12                           | 80mm   | \$30mm | AB-140-M     | 10.9          | W708848-S439   |
| M12                           | 85mm   | 30mm   | AB-140-MA    | 8.8           | E800880-S72    |
| M12                           | 88mm   | 88mm   | AB-140-MR    | 10.9          | W709878-S439   |
| M12                           | 90mm   | 50mm   | AB-140-MP    | 10.9          | W709128-S439   |
| M12                           | 100mm  | 30mm   | AB-140-MG    | 10.9          | W708740-S439   |
| M12                           | 120mm  | —      | AB-140-MT    | 9             | N606090-S      |
| M12                           | 130mm  | —      | AB-140-ND    | 10.9          | W705049-S426   |
| M12                           | 134mm  | —      | AB-140-NC    | —             | W707608-S426   |
| M12                           | 145mm  | 40mm   | AB-156       | 10.9          | W709127-S439   |
| M12                           | 155mm  | 35mm   | AB-156-A     | 10.9          | W707865-S426   |
| M12                           | 160mm  | 40mm   | AB-140-F     | 10.9          | W709124-S439   |

\$ Adhesive Coated

(continued)

# Standard and Utility Parts Catalog

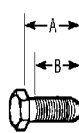
PH-29

BOLT — HEXAGON HEAD (Cont'd)

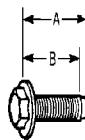
| Metric Coarse Thread (Cont'd) |         |         |              |      |              |
|-------------------------------|---------|---------|--------------|------|--------------|
| NOMINAL SIZE                  | A       | B       | LOCATOR CODE | P/C  | PART NUMBER  |
| M12                           | 170mm   | 35mm    | AB-156-D     | 10.9 | W709123-S439 |
| M12                           | 190mm   | 36mm    | AB-140-N     | 10   | W709720-S439 |
| M12                           | 210mm   | 36mm    | AB-140-NA    | 8.8  | E800878-S201 |
| M14                           | 30mm    | —       | AB-171       | 10   | W506451-S439 |
| M14                           | 35mm    | 35mm    | AB-172-HA    | 10.9 | W506454-S426 |
| M14                           | 40mm    | \$20mm  | AB-172-HB    | 10.9 | W709872-S439 |
| M14                           | 50mm    | 34mm    | AB-172-G     | 10.9 | W500760-S436 |
| M14                           | 85mm    | —       | AB-172-CD    | 10.9 | W707579-S426 |
| M14                           | 85mm    | 40mm    | AB-172-E     | 10.9 | W710174-S439 |
| M14                           | 95mm    | —       | AB-172-CF    | 10.9 | W709227-S426 |
| M14                           | 95mm    | 34mm    | AB-172-E     | 10.9 | W709125-S439 |
| M14                           | 100mm   | —       | AB-172-CC    | 10.9 | W707337-S436 |
| M14                           | 130mm   | 40mm    | AB-172-G     | 10.9 | N800991-S2   |
| M14                           | 130mm   | 47.2mm  | AB-172-GB    | 10.9 | W708103-S426 |
| M14                           | 140mm   | 40mm    | AB-172-GA    | 10.9 | W500575-S426 |
| M14                           | 206mm   | —       | AB-172-CB    | 10.9 | W708241-S426 |
| M16                           | 37mm    | \$21mm  | AB-165-A     | 10.9 | W709847-S439 |
| M16                           | 80mm    | 38mm    | AB-165-C     | 10.9 | N601521-S2   |
| M16                           | 91.5mm  | 39.5mm  | AB-172-CC    | 10.9 | N803990-S426 |
| M16                           | 102mm   | —       | AB-165-CA    | 10.9 | W708232-S426 |
| M16                           | 113mm   | —       | AB-172-CE    | 10.9 | W708899-S426 |
| M16                           | 117mm   | —       | AB-165-FB    | 10.9 | W707202-S426 |
| M16                           | 122.5mm | 110.4mm | AB-165-FA    | 10.9 | N808476-S301 |
| M16                           | 130mm   | 44mm    | AB-165-H     | 10.9 | N601526-S2   |
| M16                           | 140mm   | 44mm    | AB-165-L     | 10.9 | W506594-S426 |
| M18                           | 139.3mm | 35mm    | AB-166       | —    | N806967-S439 |

\$ Adhesive Coated

PH-29(A) BOLT — HEXAGON HEAD



TYPE 1

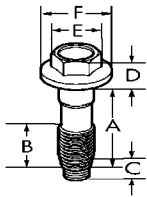


TYPE 2

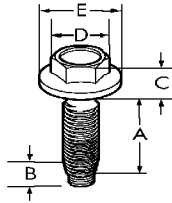
PH-29 (A)  
1/14/1999

| Metric Coarse Thread |         |         |      |              |      |              |
|----------------------|---------|---------|------|--------------|------|--------------|
| NOMINAL SIZE         | A       | B       | TYPE | LOCATOR CODE | P/C  | PART NUMBER  |
| M4                   | 11.5mm  | 7mm     | 1    | BA-20-A      | 9.8  | N602703-S309 |
| M6                   | 23.5mm  |         | 1    | BA-20-D      | 9.8  | N807658-S426 |
| M6                   | 27.5mm  |         | 1    | BA-20-E      | 9.8  | N811847-S301 |
| M12                  | 50mm    | 30mm    | 1    | BA-20-J      | 8    | W700214-S309 |
| M12                  | 110mm   | 55mm    | 1    | BA-20-I      | 9.8  | N808235-S426 |
| M12                  | 152mm   | 101mm   | 1    | BA-20-K      | 10.9 | W705051-S426 |
| M20                  | 55mm    | 55mm    | 1    | BA-20-L      | 10   | W705257-S309 |
| M20                  | 125.4mm | 52mm    | 1    | BA-20-LA     | 10.9 | W709090-S426 |
| M4                   | 14.7mm  | 16mm    | 2    | BA-21-A      | 9.8  | N602701-S55  |
| M4                   | 17.5mm  | 16mm    | 2    | BA-21-B      | 9.8  | N602703-S61  |
| M4                   | 21.3mm  | 20mm    | 2    | BA-21-C      | 8.8  | W503904-S307 |
| M6                   | 22.5mm  | 20mm    | 2    | BA-21-F      | 9.8  | N805632-S101 |
| M6                   | 22.5mm  | 20mm    | 2    | BA-21-M      | 9.8  | W500106-S300 |
| M6                   | 22.5mm  | 20mm    | 2    | BA-21-AB     | 8.8  | N806549-S309 |
| M6                   | 24mm    | 21.5mm  | 2    | BA-21-O      | 9.8  | W500128-S427 |
| M6                   | 26mm    | 22mm    | 2    | BA-21-H      | 9.8  | N807446-S411 |
| M6                   | 82.2mm  | 42.5mm  | 2    | BA-21-AA     | 8.8  | W705559-S300 |
| M8                   | 33mm    | 26mm    | 2    | BA-21-J      | 9.8  | N803417-S36  |
| M10                  | 23.5mm  | 20mm    | 2    | BA-21-K      |      | N806467-S309 |
| M14                  | 114.6mm | 119.2mm | 2    | BA-21-L      | 10   | W704884-S426 |

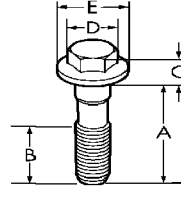
## PH-29(B) BOLT — HEXAGON HEAD



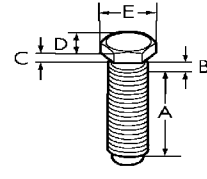
TYPE 1



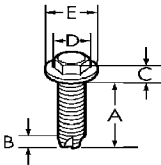
TYPE 2



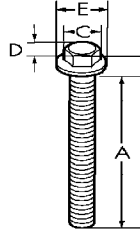
TYPE 3



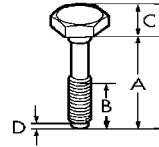
TYPE 4



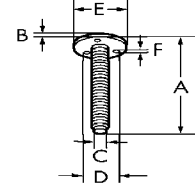
TYPE 5



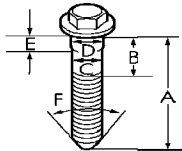
TYPE 6



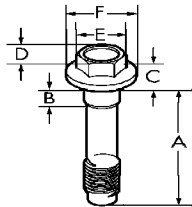
TYPE 7



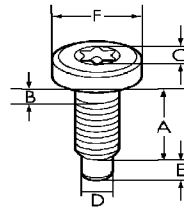
TYPE 8



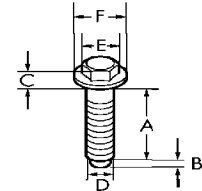
TYPE 9



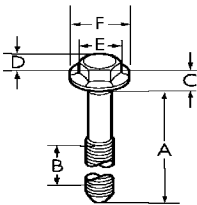
TYPE 10



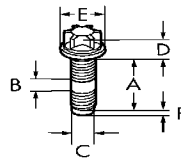
TYPE 11



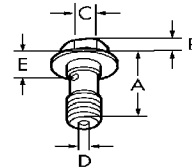
TYPE 12



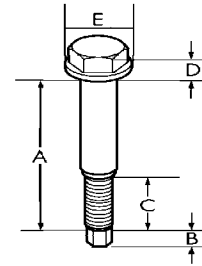
TYPE 13



TYPE 14



TYPE 15

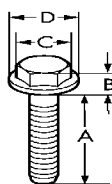


TYPE 16

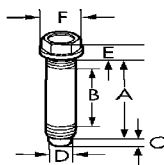
PH-29B  
12/19/2002

(continued)

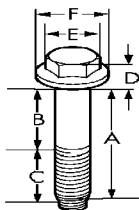
## PH-29(C) BOLT — HEXAGON OR PAN HEAD — SPECIAL



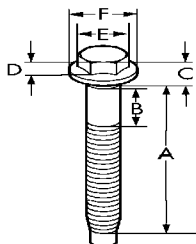
TYPE 17



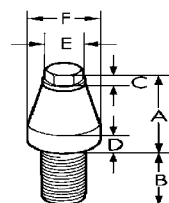
TYPE 18



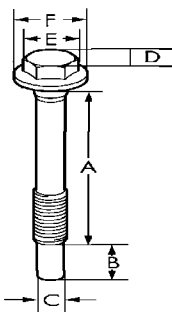
TYPE 19



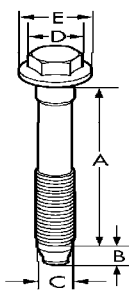
TYPE 20



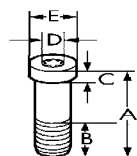
TYPE 21



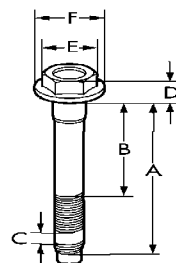
TYPE 22



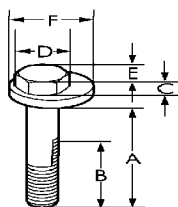
TYPE 23



TYPE 24



TYPE 25



TYPE 26

PH-29C  
12/01/2003

## Metric Coarse Thread

| NOMINAL SIZE | A       | B        | C      | D      | E     | F      | TYPE | P/C  | LOCATOR CODE | PART NUMBER  |
|--------------|---------|----------|--------|--------|-------|--------|------|------|--------------|--------------|
| 7/16"        | 6.000   | \$1.700  | .170   | .385   | .5625 | .927   | 1    | —    | WA-321-F     | 391983-S101  |
| 4.0          | 20.65mm | 2.92mm   | 5.96mm | 10.5mm | —     | —      | 1    | —    | WA-32        | W710480-S434 |
| M6           | 35mm    | 18mm     | 4.5mm  | 6.8mm  | 8mm   | 13.6mm | 1    | 8.8  | WA-301-A     | W506101-S437 |
| M6           | 40mm    | 18mm     | 4.5mm  | 6.8mm  | 8mm   | 13.6mm | 1    | 8.8  | WA-301-B     | W506102-S437 |
| M6           | 45mm    | 18mm     | 4.5mm  | 6.8mm  | 8mm   | 13.6mm | 1    | 8.8  | WA-301-C     | W506103-S437 |
| M6           | 45mm    | 18mm     | 7mm    | 6.8mm  | 8mm   | 13.6mm | 1    | 10.9 | WA-321-P     | W506503-S438 |
| M6           | 50mm    | 18mm     | 4.5mm  | 6.8mm  | 8mm   | 13.6mm | 1    | 8.8  | WA-301-D     | W506104-S437 |
| M6           | 50mm    | 18mm     | 7mm    | 6.8mm  | 8mm   | 13.6mm | 1    | 10.9 | WA-321-PA    | W506504-S424 |
| M6           | 50mm    | 18mm     | 7mm    | 6.8mm  | 8mm   | 13.6mm | 1    | 10.9 | WA-321-PA    | W506504-S436 |
| M8           | 55mm    | 22mm     | 9mm    | 8.5mm  | 10mm  | 17mm   | 1    | 10.9 | WA-321-M     | W506514-S309 |
| M8           | 79.0mm  | 39.0mm   | 4mm    | —      | 10mm  | 17mm   | 1    | 8.8  | WA-321-CA    | W706447-S437 |
| M8           | 80mm    | 22mm     | 9mm    | 8.5mm  | 10mm  | 17mm   | 1    | 10.9 | WA-321-AE    | W506519-S426 |
| M10          | 30.42mm | 11.0mm   | 7.8mm  | 13.5mm | 15mm  | 24.7mm | 1    | 10   | WA-321-E     | W708261-S301 |
| M10          | 35mm    | \$21.5mm | —      | 10.4mm | —     | —      | 1    | 10.9 | WA-321-AD    | N807551-S101 |
| M10          | 45mm    | 26mm     | 11mm   | 9.7mm  | 13mm  | 20.8mm | 1    | 10.9 | WA-321-R     | W506521-S426 |
| M10          | 45mm    | 26mm     | 11mm   | 9.7mm  | 13mm  | 20.8mm | 1    | 10.9 | WA-321-R     | W506521-S439 |
| M10          | 65mm    | 26mm     | 11mm   | 9.7mm  | 13mm  | 20.8mm | 1    | 10.9 | WA-321-AA    | W506525-S309 |
| M10          | 65mm    | 26mm     | 11mm   | 9.7mm  | 13mm  | 20.8mm | 1    | 10.9 | WA-321-AB    | W506525-S426 |
| M10          | 80mm    | 26mm     | 7.6mm  | 9.7mm  | 13mm  | 20.8mm | 1    | 10.9 | WA-321-A     | W506528-S426 |
| M10          | 96.7mm  | @75.0mm  | —      | —      | 13mm  | 20.8mm | 1    | 10.9 | WA-321-AC    | W709195-S426 |
| M12          | 65mm    | 30mm     | 13mm   | 11.9mm | 15mm  | 24.7mm | 1    | 10.9 | WA-321-S     | W506544-S426 |

\$ = Adhesive Coated

(continued)

# Standard and Utility Parts Catalog

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## PH-29(C) BOLT — HEXAGON or PAN HEAD — SPECIAL (Cont'd)

| Metric Coarse Thread (cont'd) |         |        |         |        |         |        |      |      |              |               |
|-------------------------------|---------|--------|---------|--------|---------|--------|------|------|--------------|---------------|
| NOMINAL SIZE                  | A       | B      | C       | D      | E       | F      | TYPE | P/C  | LOCATOR CODE | PART NUMBER   |
| M12                           | 70mm    | 30mm   | 9.0mm   | 11.9mm | 15mm    | 24.7mm | 1    | 10.9 | WA-321-B     | W506545-S426  |
| M12                           | 70mm    | 30mm   | 9.0mm   | 11.9mm | 15mm    | 24.7mm | 1    | 10.9 | WA-321-B     | W506545-S436  |
| M12                           | 70mm    | 30mm   | 9.0mm   | 11.9mm | 15mm    | 24.7mm | 1    | 10.9 | WA-321-B     | W506545-S439  |
| M12                           | 90mm    | 30mm   | 9.0mm   | 11.9mm | 15mm    | 24.7mm | 1    | 10.9 | WA-321-V     | W506549-S426  |
| M12                           | 90mm    | 30mm   | 9.0mm   | 11.9mm | 15mm    | 24.7mm | 1    | 10.9 | WA-321-V     | W506549-S439  |
| M14                           | 55mm    | 34mm   | 15mm    | 12.9mm | 18mm    | 28.6mm | 1    | 10.9 | WA-321-U     | W506561-S427  |
| M14                           | 90mm    | 34mm   | 10.5mm  | 12.9mm | 18mm    | 28.6mm | 1    | 10.9 | WA-322-C     | W506568-S439  |
| M16                           | 55mm    | 38mm   | 17mm    | 15.1mm | 21mm    | 32.8mm | 1    | 10.9 | WA-320-V     | W506580-S439  |
| M18                           | 150mm   | 48mm   | 19mm    | 20mm   | 24mm    | 37mm   | 1    | 10.9 | WA-321-D     | W707330-S426  |
| M5                            | 16mm    | 6mm    | 5.6mm   | 7mm    | 11.4mm  | —      | 2    | 10.9 | WA-320-B     | W506404-S437  |
| M5                            | 29mm    | 2.5mm  | 6.9mm   | 8mm    | 13.6mm  | —      | 2    | 8.8  | WA-321-G     | W708622-S437  |
| M6                            | 10mm    | 7mm    | 6.8mm   | 8mm    | 13.6mm  | —      | 2    | 10.9 | WA-320-R     | W506410-S438  |
| M6                            | 12mm    | 7mm    | 6.8mm   | 8mm    | 13.6mm  | —      | 2    | 10.9 | WA-320-X     | W506411-S424  |
| M6                            | 14mm    | 7mm    | 4.5mm   | 6.8mm  | 8mm     | 13.6mm | 2    | 10.9 | WA-320-CA    | W506412-S439  |
| M6                            | 16mm    | 7mm    | 6.8mm   | 8mm    | 13.6mm  | —      | 2    | 10.9 | WA-320-H     | W506413-S306  |
| M6                            | 16mm    | 7mm    | 6.8mm   | 8mm    | 13.6mm  | —      | 2    | 10.9 | WA-320-H     | W506413-S424  |
| M6                            | 16mm    | 7mm    | 6.8mm   | 8mm    | 13.6mm  | —      | 2    | 10.9 | WA-320-H     | W506413-S435  |
| M6                            | 16mm    | 7mm    | 6.8mm   | 8mm    | 13.6mm  | —      | 2    | 10.9 | WA-320-H     | W506413-S439  |
| M6                            | 20mm    | 7mm    | 6.8mm   | 8mm    | 13.6mm  | —      | 2    | 10.9 | WA-320-C     | W506414-S301  |
| M6                            | 20.75mm | 4.5mm  | 7.5mm   | 7.29mm | 11.3mm  | —      | 2    | 8.8  | WA-321-D     | W708204-S304  |
| M6                            | 22.5mm  | —      | 5.2mm   | 10mm   | 12.9mm  | —      | 2    | 10.9 | WA-321-F     | W704570-S301  |
| M6                            | 25mm    | 7mm    | 6.8mm   | 8mm    | 13.6mm  | —      | 2    | 8.8  | WA-300-M     | W506015-S424  |
| M8                            | 16mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 8.8  | WA-300       | W506022-S424  |
| M8                            | 20mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 10.9 | WA-320-E     | W506423-S309  |
| M8                            | 20mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 10.9 | WA-320-E     | W506423-S439  |
| M8                            | 23.48mm | 4.6mm  | 8.5mm   | 10mm   | 17mm    | —      | 2    | 8.8  | WA-321-W     | W710090-S309  |
| M8                            | 25mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 8.8  | WA-300-A     | W506024-S309  |
| M8                            | 25mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 8.8  | WA-300-AB    | W506024-S424  |
| M8                            | 25mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 8.8  | WA-300-B     | W506024-S426  |
| M8                            | 25mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 8.8  | WA-300-AC    | W506024-S431  |
| M8                            | 25mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 8.8  | WA-300-C     | W506024-S436  |
| M8                            | 25mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 10.9 | WA-320-N     | W506424-S436  |
| M8                            | 30mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 8.8  | WA-300-N     | W506025-S426  |
| M8                            | 30mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 8.8  | WA-300-N     | W506025-S438  |
| M8                            | 30mm    | 9mm    | 8.5mm   | 10mm   | 17mm    | —      | 2    | 10.9 | WA-320-S     | W506425-S426  |
| M10                           | 16mm    | 11mm   | 9.7mm   | 13mm   | 20.8mm  | —      | 2    | 10.9 | WA-300-P     | W506031-S440  |
| M10                           | 25mm    | 11mm   | 9.7mm   | 13mm   | 20.8mm  | —      | 2    | 8.8  | WA-300-R     | W506033-S439  |
| M10                           | 25mm    | 11mm   | 9.7mm   | 13mm   | 20.8mm  | —      | 2    | 10.9 | WA-320-T     | W506433-S309  |
| M10                           | 25mm    | 11mm   | 9.7mm   | 13mm   | 20.8mm  | —      | 2    | 10.9 | WA-320-U     | W506433-S426  |
| M10                           | 30mm    | 11mm   | 9.7mm   | 13mm   | 20.8mm  | —      | 2    | 10.9 | WA-320-W     | W506434-S309  |
| M10                           | 30mm    | 11mm   | 9.7mm   | 13mm   | 20.8mm  | —      | 2    | 10.9 | WA-320-W     | W506434-S436  |
| M10                           | 30mm    | 11mm   | 9.7mm   | 13mm   | 20.8mm  | —      | 2    | 10.9 | WA-320-W     | W506434-S439  |
| M12                           | 4.5mm   | —      | 15mm    | 24.7mm | —       | —      | 2    | 9.8  | WA-320-D     | N605931-S100  |
| M12                           | 25mm    | 9.0mm  | 11.9mm  | 15mm   | 24.7mm  | —      | 2    | 10.9 | WA-320-E     | W506441-S439  |
| M12                           | 35mm    | 8mm    | 4mm     | 15mm   | 24.98mm | —      | 2    | 10.9 | AB-140-EA    | W708138-S900  |
| M14                           | 55.18mm | 7.18mm | 20.20mm | 18.0mm | 36.5mm  | —      | 2    | 10   | WA-320-F     | W710091-S309  |
| M4                            | 25mm    | 12mm   | 4mm     | 5.5mm  | 8.2mm   | —      | 3    | —    | WA-102-M     | W704373-S309M |
| M4                            | 25mm    | 12mm   | 4mm     | 5.5mm  | 8.2mm   | —      | 3    | —    | WA-102-M     | W704373-S437M |
| M6                            | 22.4mm  | \$16mm | 7.9mm   | 8mm    | 13.6mm  | —      | 3    | 10   | WA-121-K     | W708389-S426  |
| M6                            | 30mm    | 18mm   | 6.9mm   | 8mm    | 13.6mm  | —      | 3    | 10.9 | WA-121       | W500500-S301  |
| M6                            | 40mm    | 22mm   | 8.5mm   | 10mm   | 17mm    | —      | 3    | 8.8  | WA-111-B     | W503280-S     |
| M6                            | 40mm    | 22mm   | 8.5mm   | 10mm   | 17mm    | —      | 3    | 8.8  | WA-111-B     | W503280-S437  |
| M6                            | 65.6mm  | 18mm   | 6.9mm   | 8mm    | 13.6mm  | —      | 3    | 8    | WA-122-Z     | W709492-S300  |

@ = Nylon Patch/Coating

\$ = Adhesive Coated

(continued)

# Standard and Utility Parts Catalog

## PH-29(C) BOLT — HEXAGON or PAN HEAD — SPECIAL (Cont'd)

| Metric Coarse Thread (cont'd) |         |         |        |        |        |   |      |                       |              |                |
|-------------------------------|---------|---------|--------|--------|--------|---|------|-----------------------|--------------|----------------|
| NOMINAL SIZE                  | A       | B       | C      | D      | E      | F | TYPE | P/C                   | LOCATOR CODE | PART NUMBER    |
| M6                            | 94mm    | 25mm    | 8mm    | 8mm    | 15mm   | — | 3    | 8.8                   | WA-102-B     | W701724-S424   |
| M6                            | 94mm    | 25mm    | 8mm    | 8mm    | 15mm   | — | 3    | 8.8                   | WA-102-A     | W701724-S437   |
| M8                            | 10.0mm  | 10.7mm  | 11.5mm | 13.0mm | 10.8mm | — | 3    | —                     | WA-121-L     | N807916-S2     |
| M8                            | 40mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 10.9                  | WA-121-NA    | W500511-S309   |
| M8                            | 40mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 8.8                   | WA-101       | W500511-S437   |
| M8                            | 45mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 10.9                  | WA-121-Z     | W500512-S437   |
| M8                            | 45mm    | —       | 9.8mm  | 10mm   | 20.8mm | — | 3    | 8.8                   | WA-121-F     | W708829-S426   |
| M8                            | 45mm    | 22mm    | 8.5mm  | 13mm   | 17mm   | — | 3    | 8.8                   | WA-101-A     | W500112-S306   |
| M8                            | 50mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 8.8                   | WA-101-B     | W500113-S309   |
| M8                            | 50mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 10.9                  | WA-131-A     | W500713-S309   |
| M8                            | 50mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 10.9                  | WA-131-A     | W500713-S437   |
| M8                            | 60mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 8.8                   | WA-101-AB    | W500115-S301   |
| M8                            | 65mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 8.8                   | WA-101-AC    | W500116-S309   |
| M8                            | 74mm    | —       | 5.7mm  | 13mm   | 17mm   | — | 3    | 9.8,<br>9.81,<br>9.82 | WA-101-K     | N808250-S437   |
| M8                            | 80mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 10.9                  | WA-121-T     | W500519-S438   |
| M8                            | 80mm    | 22mm    | 8.5mm  | 10mm   | 17mm   | — | 3    | 10.9                  | WA-121-T     | W500519-S439   |
| M8                            | 107.7mm | 45.7mm  | 9.8mm  | 10mm   | 20.8mm | — | 3    | 8.8                   | WA-121-P     | W709520-S437   |
| M8                            | 110.0mm | 32.0mm  | 9.7mm  | 13.0mm | 20.8mm | — | 3    | 8                     | WA-111-F     | W701057-S437   |
| M8                            | 111.3mm | 40mm    | —      | 10mm   | 20.8mm | — | 3    | 8.8                   | WA-121-E     | W701626-S437   |
| M10                           | 40mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-A     | W500120-S301   |
| M10                           | 40mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-B     | W500120-S309   |
| M10                           | 40mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-C     | W500120-S36    |
| M10                           | 40mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-D     | W500120-S415   |
| M10                           | 40mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-E     | W500120-S427   |
| M10                           | 40mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 10.9                  | WA-131-C     | W500720-S58    |
| M10                           | 40mm    | 26mm    | 9.7mm  | 15mm   | 24.7mm | — | 3    | 8.8                   | WA-122-F     | W500120-S439   |
| M10                           | 40mm    | 26mm    | 9.7mm  | 15mm   | 24.7mm | — | 3    | 8.8                   | WA-103-A     | W500320-S309   |
| M10                           | 45mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-101-G     | W500121-S301   |
| M10                           | 45mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-101-G     | W500121-S439   |
| M10                           | 45mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 10.9                  | WA-122-R     | W500521-S437   |
| M10                           | 45mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 10.9                  | WA-122-R     | W500521-S439   |
| M10                           | 45mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 10.9                  | WA-131-D     | W500721-S439   |
| M10                           | 50mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-111-R     | W500322-S301   |
| M10                           | 50mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-111-R     | W500322-S309   |
| M10                           | 50mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 10.9                  | WA-121-R     | W500522-S309   |
| M10                           | 60mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-101-R     | W500124-S427   |
| M10                           | 60mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 10.9                  | WA-121-S     | W500524-S309   |
| M10                           | 60mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 10.9                  | WA-131-E     | W500724-S439   |
| M10                           | 65mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-U     | W500125-S36    |
| M10                           | 65mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-U     | W500125-S426   |
| M10                           | 65mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-U     | W500125-S437   |
| M10                           | 65mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-U     | W500125-S439   |
| M10                           | 65mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-122-U     | W500125-S301   |
| M10                           | 65mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 10.9                  | WA-131-F     | W500725-S426   |
| M10                           | 65mm    | 30mm    | 11.9mm | 15mm   | 24.7mm | — | 3    | 10.9                  | WA-131-H     | W500724-S309   |
| M10                           | 75mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 10.9                  | WA-131-G     | W500727-S426   |
| M10                           | 80mm    | 30mm    | 11.9mm | 13mm   | 24.7mm | — | 3    | 8                     | WA-102-MA    | W704489-S437   |
| M10                           | 85mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-102-M     | W500129-S309   |
| M10                           | 90mm    | 20.8mm  | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-102-E     | W500130-S309   |
| M10                           | 95mm    | 26mm    | 9.7mm  | 13mm   | 20.8mm | — | 3    | 8.8                   | WA-102-N     | W500131-S301   |
| M10                           | 99mm    | 28mm    | —      | 13mm   | 19.1mm | — | 3    | 8.8                   | WA-121-N     | W704802-S427   |
| M12                           | 45mm    | 30mm    | 11.9mm | 15mm   | 24.7mm | — | 3    | 8.8                   | WA-101-W     | W500140-S427   |
| M12                           | 45mm    | 30mm    | 11.9mm | 15mm   | 24.7mm | — | 3    | 10.9                  | WA-121-U     | ★ W500540-S301 |
| M12                           | 45mm    | 30mm    | 11.9mm | 15mm   | 24.7mm | — | 3    | 10.9                  | WA-121-U     | W500540-S436   |
| M12                           | 50mm    | 30mm    | 11.9mm | 15mm   | 24.7mm | — | 3    | 8.8                   | WA-121-AA    | W500141-S301   |
| M12                           | 50mm    | 30mm    | 11.9mm | 15mm   | 24.7mm | — | 3    | 10.9                  | WA-121-A     | W500541-S426   |
| M12                           | 50mm    | @37.0mm | 11.9mm | 15mm   | 24.7mm | — | 3    | 10.9                  | WA-126-A     | W709551-S426   |
| M12                           | 56.2mm  | 41.0mm  | 11.9mm | 15mm   | 24.7mm | — | 3    | 10                    | WA-122-FA    | W709882-S439   |
| M12                           | 60mm    | 30mm    | 11.9mm | 15mm   | 24.7mm | — | 3    | 8.8                   | WA-101-H     | W500143-S438   |
| M12                           | 60mm    | 30mm    | 11.9mm | 15mm   | 24.7mm | — | 3    | 10.9                  | WA-131-B     | W500743-S301   |

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## PH-29(C) BOLT — HEXAGON or PAN HEAD — SPECIAL (Cont'd)

| Metric Coarse Thread (cont'd) |           |        |         |         |         |        |      |      |              |               |
|-------------------------------|-----------|--------|---------|---------|---------|--------|------|------|--------------|---------------|
| NOMINAL SIZE                  | A         | B      | C       | D       | E       | F      | TYPE | P/C  | LOCATOR CODE | PART NUMBER   |
| M12                           | 65mm      | 29mm   | —       | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-121-M     | W707018-S426  |
| M12                           | 65mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-121-B     | W500544-S436  |
| M12                           | 70mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 8.8★ | WA-101-J     | W500145-S438  |
| M12                           | 70mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-121-V     | W500545-S427  |
| M12                           | 75mm      | 25mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-121-C     | W707646-S301  |
| M12                           | 75mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 8.8  | WA-101-F     | ★W500146-S301 |
| M12                           | 75mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 8.8  | WA-101-F     | W500146-S309  |
| M12                           | 75mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-131-J     | W500746-S309  |
| M12                           | 75mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-131-J     | W500746-S426  |
| M12                           | 90mm      | 30mm   | 11.9mm  | 15mm    | 34.7mm  | —      | 3    | 10.9 | WA-101-K     | W500749-S301  |
| M12                           | 95mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 8.8  | WA-102-D     | ★W500150-S301 |
| M12                           | 95mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-121-J     | W703725-S309  |
| M12                           | 95mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-101-L     | W500750-S301  |
| M12                           | 95mm      | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-121-H     | W703725-S426  |
| M12                           | 100mm     | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-101-M     | W500751-S309  |
| M12                           | 105mm     | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 10.9 | WA-101-E     | W500752-S426  |
| M12                           | 110mm     | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 8.8  | WA-102-C     | W500153-S309  |
| M12                           | 110mm     | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 8.8  | WA-102-C     | ★W500153-S427 |
| M12                           | 110mm     | 30mm   | 11.9mm  | 15mm    | 24.7mm  | —      | 3    | 8.8  | WC-102-C     | W500153-S439  |
| M14                           | 35mm      | 29mm   | 12.9mm  | 18mm    | 28.6mm  | —      | 3    | 10.9 | WA-121-D     | W708519-S301  |
| M14                           | 60mm      | 25.0mm | —       | -       | 28.5mm  | —      | 3    | 10.9 | WA-125-A     | W706890-S426  |
| M14                           | 60mm      | 34mm   | 12.9mm  | 18mm    | 28.6mm  | —      | 3    | 10.9 | WA-121-N     | W500562-S309  |
| M14                           | 75mm      | 34mm   | 12.9mm  | 18mm    | 28.6mm  | —      | 3    | 10.9 | WA-121-W     | W500565-S427  |
| M14                           | 75mm      | 34mm   | 12.9mm  | 18mm    | 28.6mm  | —      | 3    | 10.9 | WA-131-K     | W500765-S439  |
| M14                           | 84.8mm    | 34mm   | 12.9mm  | 18mm    | 28.6mm  | —      | 3    | 10.9 | WA-131-K     | W709870-S439  |
| M14                           | 90mm      | \$18mm | —       | 18mm    | 28.6mm  | —      | 3    | 10.9 | WA-131-R     | W709865-S439  |
| M14                           | 90mm      | 34mm   | 12.9mm  | 18mm    | 28.6mm  | —      | 3    | 10.9 | WA-121-R     | W500568-S437  |
| M14                           | 110.8mm   | 51mm   | 12.9mm  | 20.78mm | 18.00mm | 28.6mm | 3    | 10   | WA-320-N     | W710310-S439  |
| M14                           | 128.5mm   | 52.1mm | 12.9mm  | 18mm    | 28.6mm  | —      | 3    | 10.9 | WA-320-NA    | W705516-S439  |
| M16                           | 135.8mm   | —      | 18mm    | 24.00mm | 39mm    | —      | 3    | 10   | WA-320-M     | W707843-S426  |
| M20                           | 115mm     | 52mm   | 17.7mm  | 30mm    | 45mm    | —      | 3    | 10.9 | WA-121-G     | W708226-S426  |
| M14                           | 57.0mm    | 5.25mm | 7.76mm  | 20.78mm | 18mm    | —      | 4    | 10.9 | WA-323-A     | N808896-S101  |
| M6                            | 25mm      | 5mm    | 8.5mm   | 10.00mm | 14mm    | —      | 5    | 10.9 | WA-400-F     | W709274-S301  |
| M6                            | 26.5mm    | 2.5mm  | 6.9mm   | 13.00mm | 20.8mm  | —      | 5    | 8.8  | WA-400-D     | W708441-S900  |
| M8                            | 16.5mm    | 5.0mm  | 8.5mm   | 10.00mm | 17.0mm  | —      | 5    | 8.8  | WA-500-F     | W709072-S301  |
| M8                            | 16.5mm    | 5.0mm  | 8.5mm   | 10.00mm | 17.0mm  | —      | 5    | 8.8  | WA-500-F     | W709072-S309  |
| M8                            | 21mm      | 5.0mm  | 8.5mm   | 10.00mm | 17mm    | —      | 5    | 8.8  | WA-400-E     | W708004-S309  |
| M10                           | 20mm      | —      | 9.7mm   | 13mm    | 20.8mm  | —      | 5    | 10.9 | WA-500-G     | W709184-S439  |
| M10                           | 25mm      | 7mm    | 9.7mm   | 13mm    | 20.8mm  | —      | 5    | 10.9 | WA-401-A     | W707483-S301  |
| M10                           | 30mm      | 8.5mm  | 9.7mm   | 14.08mm | 22.4mm  | —      | 5    | 10.9 | WA-500-M     | W710255-S440  |
| M6                            | 20mm      | 3.75mm | 13.6mm  | 8mm     | 19.43mm | —      | 6    | 8.8  | AB-26-JC     | W708650-S437  |
| M6                            | 25mm      | 6.9mm  | 11.54mm | 10.00mm | 15mm    | —      | 6    | 6.8  | AB-26-JA     | N807070-S437  |
| M6                            | 35mm      | 8.9mm  | 13mm    | 14.08mm | 17.01mm | —      | 6    | 8    | AB-26-JM     | W701069-S309  |
| M6                            | 35mm      | 8.9mm  | 13mm    | 14.08mm | 17.01mm | —      | 6    | 8    | AB-26-JM     | W701069-S437  |
| M6                            | 35mm      | 8.9mm  | 13mm    | 14.08mm | 17.01mm | —      | 6    | 8    | AB-26-JM     | W701069-S439  |
| M6                            | 68mm      | 6.9mm  | 8mm     | 8.56mm  | 13.6mm  | —      | 6    | 8.8  | AB-12-GA     | W708500-S300  |
| M8                            | 35mm      | 7mm    | 12mm    | 13.3mm  | 17mm    | —      | 6    | 10.9 | AB-26-JB     | W709607-S301  |
| M8                            | 161mm     | 8.5mm  | 10mm    | —       | 17mm    | —      | 6    | 8.8  | AB-20-JA     | W704384-S309  |
| M10                           | 133.5mm   | 11.5mm | 15.0mm  | —       | 24.7mm  | —      | 6    | 9    | AB-27-BA     | N808871-S301  |
| M10                           | 133.5mm   | 11.5mm | 15.0mm  | —       | 24.7mm  | —      | 6    | 9    | AB-27-BA     | N808871-S437  |
| M18                           | 57mm      | 20mm   | 24.0mm  | 27.7mm  | 37mm    | —      | 6    | 10.9 | AB-140-MT    | W709789-S437  |
| M8                            | 56mm      | 30mm   | 7.79mm  | 3.0mm   | —       | —      | 7    | 8.8  | WA-401-A     | W706605-S437  |
| M6                            | 50mm      | 2.29mm | 4.4mm   | 13.5mm  | 19.08mm | 3.18mm | 8    | 9.81 | WA-322-A     | N806324-S     |
| M8                            | 25mm      | 3.00mm | 6.10mm  | —       | 19.05mm | 3.18mm | 8    | 9.8  | WA-322-M     | N808671-S300  |
| M10                           | 12.35mm   | 3.5mm  | —       | —       | 20.0mm  | 4.3mm  | 8    | 8.8  | WA-720-A     | W706507-S300  |
| M12                           | 22mm      | 4.5mm  | 12.8mm  | —       | 15.0mm  | 28.6mm | 8    | 10.9 | WA-322-B     | W709500-S439  |
| M12                           | \$54.20mm | 27mm   | —       | 12mm    | 12mm    | —      | 9    | 10.9 | AB-172-L     | W705696-S436  |

\$ = Adhesive Coated

(continued)



# Standard and Utility Parts Catalog

## PH-29(C) BOLT — HEXAGON or PAN HEAD — SPECIAL (Cont'd)

| Metric Coarse Thread (cont'd) |          |          |           |         |         |         |      |                       |              |               |
|-------------------------------|----------|----------|-----------|---------|---------|---------|------|-----------------------|--------------|---------------|
| NOMINAL SIZE                  | A        | B        | C         | D       | E       | F       | TYPE | P/C                   | LOCATOR CODE | PART NUMBER   |
| M12                           | 126.0mm  | 82.8mm   | —         | —       | 9.3mm   | 46.2deg | 9    | 10.9                  | AB-172-K     | W705694-S301  |
| M14                           | 104.5mm  | 38mm     | 14mm      | 14.68mm | 5.0mm   | 62.5deg | 9    | 10.9                  | AB-172-J     | N808465-S190  |
| M14                           | 127mm    | 36.3mm   | 13.00mm   | 14.00mm | 36.3mm  | 63deg   | 9    | 10.9                  | AB-172-M     | W709036-S426  |
| M16                           | 103.5mm  | —        | 15.0mm    | —       | 9.8mm   | 48.0deg | 9    | 10                    | AB-172-J     | W707516-S426  |
| M10                           | 28.42mm  | 3.9mm    | 9.7mm     | 13mm    | —       | 20.8mm  | 10   | 8.8                   | AB-172-FB    | W707702-S309  |
| M10                           | 120.00mm | —        | —         | —       | 13mm    | 20.8mm  | 10   | 10.9                  | AB-172-FE    | W706733-S426  |
| M12                           | 114.3mm  | 20.2mm   | 10.8mm    | 15.0mm  | 15.0mm  | 24.0mm  | 10   | 10.9                  | AB-172-FA    | W709224-S301  |
| M14                           | 103.1    | 12.5mm   | 14.61mm   | —       | 18mm    | 28.6mm  | 10   | 10.9                  | AB-172       | W704888-S900  |
| M14                           | 122.8mm  | 2.5mm    | 16mm      | 21.0mm  | 22.9mm  | 35      | 10   | —                     | AB-172-FA    | W707839-S426  |
| M16                           | 50.0mm   | 13mm     | 14.3mm    | 21.00mm | 24.25mm | 29.6mm  | 10   | 9.8                   | AB-172-FC    | N811508-S100  |
| M18                           | 133.3mm  | 50.0mm   | 20.0mm    | 24.0mm  | 27.7mm  | 37.0mm  | 10   | 10.9                  | AB-172-FB    | W709627-S426  |
| M18                           | 132.8mm  | —        | 6.2mm     | 22.58mm | 21.00mm | 39mm    | 10   | 10.9                  | AB-172-FD    | W709877-S439  |
| M6                            | 12.35mm  | —        | 4.5mm     | —       | 4.0mm   | 9.5mm   | 11   | 8                     | WA-402-E     | W709792-S301  |
| M6                            | 19.42mm  | 4.0mm    | 2.17mm    | 4.5mm   | 5.5mm   | 12.15mm | 11   | 10                    | WA-402-A     | W708561-S300  |
| M12                           | 36.5mm   | 1.75mm   | 11.33mm   | 10.02mm | 10.5mm  | 24.0mm  | 11   | 10                    | WA-402-F     | W705640-S900  |
| M6                            | 10.0mm   | 3.25mm   | 6.9mm     | 4.0mm   | 8.8mm   | 13.6mm  | 12   | 8.8                   | WA-403-B     | W709151-S309  |
| M6                            | 32.0mm   | 1.5mm    | 6.9mm     | 4.4mm   | 15.01mm | 20.0mm  | 12   | 8.8                   | WA-403-E     | W707103-S439  |
| M8                            | #27mm    | 4.3mm    | 8.5mm     | 6.1mm   | 10mm    | 17mm    | 12   | 10                    | WA-403       | W706229-S309M |
| M8                            | #27mm    | 4.3mm    | 8.5mm     | 6.1mm   | 10mm    | 17mm    | 12   | 10                    | WA-403       | W706229-S437M |
| M8                            | 35.0mm   | 3.0mm    | 8.3mm     | 6.1mm   | 11.54mm | 15.5mm  | 12   | 10.9                  | WA-403-A     | W704692-S309  |
| M8                            | 95.7mm   | 30.0mm   | 8.5mm     | 10.0mm  | 10.8mm  | 17.0mm  | 12   | 10                    | WA-402-M     | W709170-S424  |
| M12                           | 22mm     | 4.5mm    | 12.8mm    | 9.5mm   | 20.78mm | 28.6mm  | 12   | 8.8                   | WA-403-R     | W701843-S426  |
| M12                           | 22mm     | 4.5mm    | 12.8mm    | 9.5mm   | 20.78mm | 28.6mm  | 12   | 8.8                   | WA-403-R     | W701843-S439  |
| M16                           | 32.42mm  | 2.5mm    | 12.9mm    | 13.82mm | 18mm    | 28.6mm  | 12   | 8.8                   | WA-403-M     | W709916-S438  |
| M8                            | 30mm     | \$13.0mm | 9.3mm     | 13.0mm  | —       | 17.0mm  | 13   | 9.8                   | WA-500-C     | N803747-S102  |
| M8                            | 30mm     | 20mm     | 8.5mm     | 13.0mm  | 13.0mm  | 17mm    | 13   | 8.8                   | WA-500-G     | W704980-S436  |
| M8                            | 71.3mm   | 40mm     | 9.30mm    | 13.0mm  | 15.01mm | 17mm    | 13   | 9.8,<br>9.81,<br>9.82 | WA-500-H     | N811375-S100  |
| M8                            | 71.3mm   | 40mm     | 9.30mm    | 13.0mm  | 15.01mm | 17mm    | 13   | 9.8,<br>9.81,<br>9.82 | WA-500-J     | N811375-S101  |
| M8                            | 80.6mm   | 22.6mm   | 8.5mm     | 10.95mm | 10.00mm | 17mm    | 13   | 10                    | WA-500-K     | W710150-S436  |
| M12                           | 55mm     | \$18mm   | 11.9mm    | 15mm    | —       | 24.7mm  | 13   | 10.9                  | WA-500-B     | W708831-S426  |
| M12                           | 74.7mm   | \$18.0mm | 11.9mm    | 18.00mm | 19.86mm | 24.7mm  | 13   | 10.9                  | WA-500-D     | W710909-S439  |
| M12                           | 112mm    | \$25mm   | 13.2mm    | 18.00mm | 20.78mm | 25.6mm  | 13   | 10.9                  | WA-500-A     | W708783-S426  |
| M18                           | 49.1mm   | \$27mm   | 15.4mm    | 24.00mm | 27.71mm | 35mm    | 13   | 10.9                  | WA-500-C     | W708772-S426  |
| M10                           | 27.2mm   | 9.4mm    | 10.00mm   | 3.2mm   | —       | —       | 15   | —                     | WA-700-B     | W709290-S901  |
| M10                           | 31.8mm   | 9.4mm    | 10.00mm   | 3.2mm   | 7.0mm   | —       | 15   | —                     | WA-700-A     | W709298-S901  |
| M10                           | 60mm     | —        | 25.0mm    | 9.7mm   | 20.8mm  | —       | 16   | 10.9                  | WA-700-C     | ★W709618-S301 |
| M12                           | 71.7mm   | 9.0mm    | \$18.00mm | 11.9mm  | 24.7mm  | —       | 16   | 10.9                  | WA-710       | W710207-S439  |
| M14                           | 125.4mm  | 21.1mm   | 34.0mm    | 12.9mm  | 26.4mm  | —       | 16   | 10.9                  | WA-710-A     | W709626-S426  |
| M5                            | 16mm     | 5.8mm    | 7mm       | 11.4mm  | —       | —       | 17   | 10.9                  | WA-100-Z     | W500004-S309  |
| M5                            | 16mm     | 5.8mm    | 7mm       | 11.4mm  | —       | —       | 17   | 10.9                  | WA-100-Z     | W500004-S424  |
| M6                            | 10mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-R     | W500010-S301  |
| M6                            | 10mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-R     | W500010-S309  |
| M6                            | 10mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-AA    | W500010-S437  |
| M6                            | 12mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-S     | W500011-S309  |
| M6                            | 14mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-T     | W500012-S301  |
| M6                            | 14mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-BB    | W500012-S437  |
| M6                            | 16mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-U     | W500013-S301  |
| M6                            | 20mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-CC    | W500014-S301  |
| M6                            | 20mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-DD    | W500014-S303  |
| M6                            | 20mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-EE    | W500014-S426  |
| M6                            | 20mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-FF    | W500014-S437  |
| M6                            | 20mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-CC    | W500014-S439  |
| M6                            | 25mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-D     | W500015-S303  |
| M6                            | 25mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 10.9                  | WA-100-D     | W500015-S309  |
| M6                            | 25mm     | 6.9mm    | 8mm       | 13.6mm  | —       | —       | 17   | 8.8                   | WA-100-D     | W500015-S439  |
| M8                            | 12mm     | 8.5mm    | 8mm       | 13.6mm  | —       | —       | 17   | 8.8                   | WA-100-H     | W500011-S300  |
| M8                            | 12mm     | 8.5mm    | 8mm       | 13.6mm  | —       | —       | 17   | 8.8                   | WA-100-J     | W500011-S301  |
| M8                            | 12mm     | 8.5mm    | 8mm       | 13.6mm  | —       | —       | 17   | 8.8                   | WA-100-K     | W500011-S309  |

\$ = Adhesive Coated

# Plastic patch

(continued)

# Standard and Utility Parts Catalog

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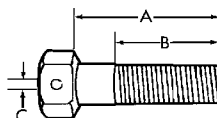
## PH-29(C) BOLT — HEXAGON or PAN HEAD — SPECIAL (Cont'd)

| Metric Coarse Thread (cont'd) |         |          |         |         |         |         |      |      |              |               |
|-------------------------------|---------|----------|---------|---------|---------|---------|------|------|--------------|---------------|
| NOMINAL SIZE                  | A       | B        | C       | D       | E       | F       | TYPE | P/C  | LOCATOR CODE | PART NUMBER   |
| M8                            | 12mm    | 8.5mm    | 8mm     | 13.6mm  | —       | —       | 17   | 8.8  | WA-100-H     | W500011-S439  |
| M8                            | 12mm    | 8.5mm    | 8mm     | 13.6mm  | —       | —       | 17   | 8.8  | WA-100-L     | W500011-S437  |
| M8                            | 12mm    | 8.5mm    | 10mm    | 17mm    | —       | —       | 17   | 10.9 | WA-100-GG    | W500020-S301  |
| M8                            | 14mm    | 8.5mm    | 10mm    | 17mm    | —       | —       | 17   | 10.9 | WA-100-HH    | W500021-S309  |
| M8                            | 16mm    | 8.5mm    | 10mm    | 17mm    | —       | —       | 17   | 10.9 | AB-118-M     | W500022-S309  |
| M8                            | 16mm    | 8.5mm    | 10mm    | 17mm    | —       | —       | 17   | 10.9 | AU-50-GV     | W500022-S426  |
| M8                            | 16mm    | 8.5mm    | 10mm    | 17mm    | —       | —       | 17   | 10.9 | WA-100-HM    | W500022-S439  |
| M8                            | 25mm    | 8.5mm    | 10mm    | 17mm    | —       | —       | 17   | 10.9 | WA-100-JJ    | W500024-S437  |
| M8                            | 25mm    | 8.5mm    | 10mm    | 17mm    | —       | —       | 17   | 10.9 | WA-100-JJ    | W500024-S439  |
| M8                            | 30mm    | 8.5mm    | 10mm    | 17mm    | —       | —       | 17   | 10.9 | WA-100-KK    | W500025-S303  |
| M8                            | 30mm    | 8.5mm    | 10mm    | 17mm    | —       | —       | 17   | 10.9 | WA-100-KK    | W500025-S309  |
| M10                           | 14mm    | 9.7mm    | 13mm    | 20.8mm  | —       | —       | 17   | 10.9 | WA-100-LL    | W500030-S309  |
| M10                           | 16mm    | 9.7mm    | 13mm    | 20.8mm  | —       | —       | 17   | 10.9 | WA-100-MM    | W500031-S427  |
| M10                           | 20mm    | 9.7mm    | 13mm    | 20.8mm  | —       | —       | 17   | 10.9 | WA-100-NN    | W500032-S203  |
| M10                           | 20mm    | 9.7mm    | 13mm    | 20.8mm  | —       | —       | 17   | 10.9 | WA-100-NN    | W500032-S309  |
| M10                           | 24.42mm | \$9.7mm  | 14.08mm | 20.8mm  | —       | —       | 17   | 10.9 | WA-106       | W710222-S439  |
| M10                           | 25mm    | 9.7mm    | 13mm    | 20.8mm  | —       | —       | 17   | 10.9 | WA-100-PP    | W500033-S309  |
| M10                           | 30mm    | 9.7mm    | 13mm    | 17mm    | —       | —       | 17   | 10.9 | WA-100-V     | W500034-S309  |
| M10                           | 30mm    | 9.7mm    | 13mm    | 17mm    | —       | —       | 17   | 10.9 | WA-100-V     | W500034-S426  |
| M10                           | 30mm    | 9.7mm    | 13mm    | 20.8mm  | —       | —       | 17   | 10.9 | WA-100-RR    | W500034-S439  |
| M10                           | 35mm    | 9.7mm    | 13mm    | 20.8mm  | —       | —       | 17   | 10.9 | WA-100-SS    | W500035-S415  |
| M12                           | 25mm    | 11.9mm   | 15mm    | 24.7mm  | —       | —       | 17   | 10.9 | WA-100-W     | W500441-S309  |
| M12                           | 30mm    | 11.9mm   | 15mm    | 24.7mm  | —       | —       | 17   | 8.8  | WA-100-B     | W500042-S301  |
| M12                           | 30mm    | 11.9mm   | 15mm    | 24.7mm  | —       | —       | 17   | 8.8  | WA-100-C     | W500042-S309  |
| M12                           | 30mm    | 11.9mm   | 15mm    | 24.7mm  | —       | —       | 17   | 10.9 | WA-100-X     | W500442-S309  |
| M12                           | 35mm    | 11.9mm   | 15mm    | 24.7mm  | —       | —       | 17   | 10.9 | WA-100-TT    | W500043-S301  |
| M12                           | 40mm    | 11.9mm   | 15mm    | 24.7mm  | —       | —       | 17   | 8.8  | WA-100-C     | W500044-S438  |
| M12                           | 56.5mm  | 40.0mm   | 7.0mm   | 9.2mm   | 9.76mm  | 16.5mm  | 18   | 10.9 | WA-99-A      | W709832-S301  |
| M5                            | 16.4mm  | —        | \$8.0mm | 3.05mm  | 8.56mm  | 10.5mm  | 19   | 8.8  | WA-800-F     | W709911-S437  |
| M12                           | 30mm    | 15mm     | \$11mm  | 11.9mm  | 15mm    | 24.7mm  | 19   | 10   | WA-800-A     | W700672-S309  |
| M12                           | 30mm    | 15mm     | \$11mm  | 11.9mm  | 15mm    | 24.7mm  | 19   | 10   | WA-800-B     | W700672-S437  |
| M12                           | 80.6mm  | 36.25mm  | #35mm   | 13.0mm  | 15.00mm | 30.5mm  | 19   | 8.8  | WA-800       | W706981-S309  |
| M12                           | 80.6mm  | 36.25mm  | #35mm   | 13.0mm  | 15.00mm | 30.5mm  | 19   | 8.8  | WA-800       | W706981-S437  |
| M12                           | 65mm    | 30mm     | 11.9mm  | 1.5mm   | 24.7mm  | —       | 19   | 10   | WA-800-C     | W708739-S439  |
| M12                           | 156.5mm | \$27.0mm | 11.9mm  | 17.32mm | 15.0mm  | 24.7mm  | 20   | 10.9 | WA-810       | W710054-S437  |
| M8                            | 30.5mm  | 18.2mm   | 4.5mm   | 5.0mm   | 8.08mm  | 15.00mm | 21   | 8    | WA-820       | W706444-S309U |
| M14                           | 94.2mm  | 26mm     | 11.1mm  | 22.9mm  | 21.00mm | 32.5mm  | 22   | 10   | WA-830       | W707841-S426  |
| M12                           | 90.7mm  | 9.5mm    | 9.5mm   | 15mm    | 24.7mm  | —       | 23   | 10   | WA-840       | W707881-S426  |
| M5                            | 11.25mm | \$4.0mm  | 5.00mm  | 5.09mm  | 8.50mm  | —       | 24   | 8.8  | WA-861       | W709526-S900  |
| M8                            | 40mm    | #28mm    | 6mm     | —       | 13mm    | —       | 24   | 10.9 | WA-863       | W708259-S426  |
| M10                           | 35.00mm | 13.6mm   | 8.00mm  | 7.92mm  | 13.0mm  | —       | 24   | 10.9 | WA-850       | W705857-S424  |
| M12                           | 95.7mm  | 56.25mm  | #10.5mm | 12.9mm  | 21.00mm | 28.5mm  | 25   | 10.9 | WA-860       | W710205-S426  |
| M12                           | 95.7mm  | 56.25mm  | #10.5mm | 12.9mm  | 21.00mm | 28.5mm  | 25   | 10.9 | WA-860       | W710205-S439  |
| M18                           | 135.8mm | 60.0mm   | 25.0mm  | 20.0mm  | 27.70mm | 37.0mm  | 25   | 10.9 | WA-862       | W709143-S426  |
| M12                           | 65mm    | 40mm     | 8.2mm   | 20.91mm | 19.00mm | 30.2mm  | 26   | 10.9 | WA-880       | W708775-S439  |

\$ = Adhesive Coated

# Plastic patch

## PH-34 BOLT — HEXAGON HEAD — HEAD DRILLED



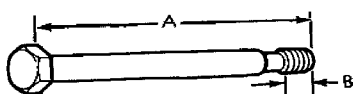
PH34

| National Fine Thread |        |         |          |       |              |       |             |
|----------------------|--------|---------|----------|-------|--------------|-------|-------------|
| DIAMETER             | THREAD | A       | B        | C     | LOCATOR CODE | GRADE | PART NUMBER |
| 9/16"                | 18     | 3-9/16" | 1-39/64" | 5/32" | BB-368       | 8     | ★353665-S8  |

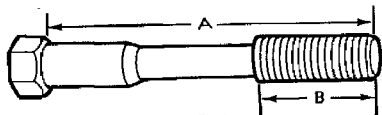
# Standard and Utility Parts Catalog

PH-586

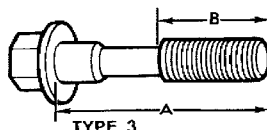
BOLT — HEXAGON or SQUARE HEAD — UNDERCUT POINT



TYPE 1



TYPE 2



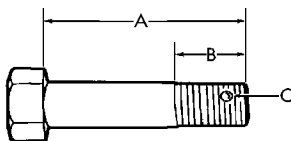
TYPE 3

PH-586

| Metric       |         |        |      |              |      |              |
|--------------|---------|--------|------|--------------|------|--------------|
| NOMINAL SIZE | A       | B      | TYPE | LOCATOR CODE | P/C  | PART NUMBER  |
| M14          | 75mm    | 2.0mm  | 2    | AB-518-B     |      | N806859-S2   |
| M8           | 36mm    | 1.25mm | 3    | AB-39-D      | —    | N803948-S100 |
| M8           | 113mm   | 26mm   | 3    | AB-39-JA     | 9.8  | N806077-S36B |
| M10          | 50mm    | 1.50mm | 3    | AB-39-JB     |      | N606062-S2   |
| M10          | 60mm    | 25mm   | 3    | AB-39        | —    | N606064-S100 |
| M10          | 65mm    | 40mm   | 3    | AB-39-LZ     | —    | W707410-S427 |
| M12          | 70mm    | —      | 3    | AB-39-J      | —    | N803486-S426 |
| M12          | 143.2mm | 40mm   | 3    | AB-39-L      | —    | N805703-S426 |
| M14          | 85mm    | 34mm   | 3    | AB-39-G      | 10.9 | W709373-S426 |
| M18          | 123.8mm | 50mm   | 3    | AB-39-C      | 10.9 | W709860-S439 |

PH-32

BOLT — HEXAGON HEAD — END DRILLED

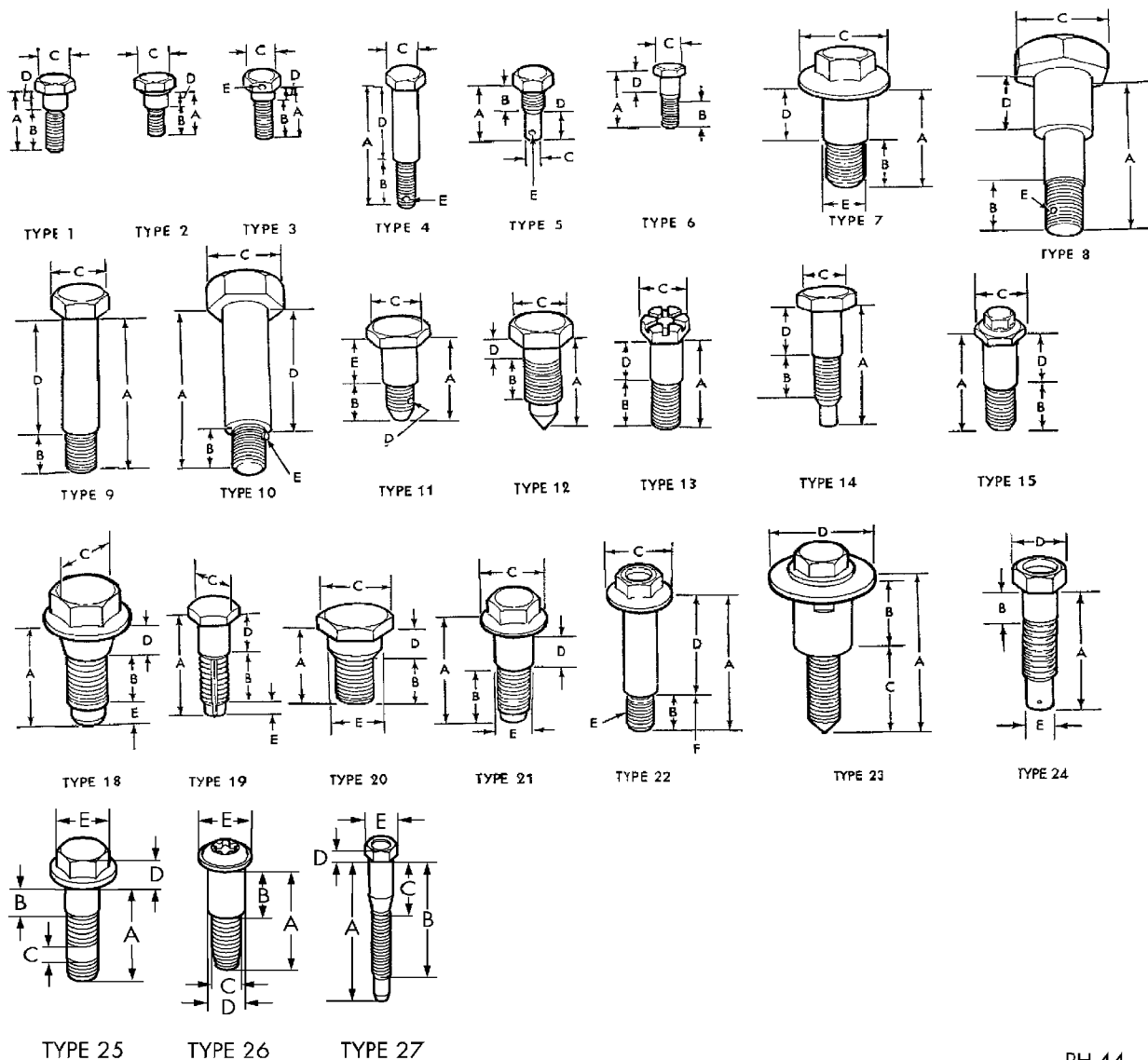


PH32

| National Fine Thread |        |        |        |       |              |       |             |
|----------------------|--------|--------|--------|-------|--------------|-------|-------------|
| DIAMETER             | THREAD | A      | B      | C     | LOCATOR CODE | GRADE | PART NUMBER |
| 1/2"                 | 20     | 4-1/4" | 2"     | 9/64" | BB-321-G     | 8     | 385288-S2   |
| 3/4"                 | 16     | 4-3/4" | 2-1/2" | 3/16" | BB-301-BP    | 8     | 388715-S2   |
| 1"                   | 14     | 5-1/2" | 2-1/4" | 3/16" | BB-301-E     | 8     | 388730-S2   |

PH-44

## BOLT — HEXAGON HEAD — SHOULDER



PH-44  
11/24/2004

### National Coarse Thread

| DIAMETER | THREAD | A        | B        | C      | D       | E      | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
|----------|--------|----------|----------|--------|---------|--------|------|--------------|-------|--------------|
| 3/8"     | 16     | 2-47/64" | 1-11/64" | 5/8"   | 1-9/16" |        | 4    | BB-450       | 5     | 359496-S8    |
| 9/16"    | 12     | 2-5/8"   | 1-1/32"  | 1-1/8" | 1-9/16" |        | 4    | BB-451-F     | 5     | 389240-S100☆ |
| 5/16"    | 18     | 59/64"   | 57/64"   |        | 2/64"   | 5/16"  | 7    | BB-920-D     | 5     | 389572-S2    |
| 5/16"    | 18     | 1-1/8"   | 3/4"     | 49/64" | 1/4"    | 1/8"   | 18   | BB-449-HA    | 8     | 390017-S2    |
| 5/16"    | 18     | 2"       | —        | —      | —       | 43/64" | 21   | BB-449-U     | 8     | 391443-S36   |

### National Fine Thread

| DIAMETER | THREAD | A  | B      | C    | D      | E | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|----|--------|------|--------|---|------|--------------|-------|-------------|
| 1/2"     | 20     | 2" | 1-3/4" | 3/4" | 11/32" |   | 14   | BB-925-E     | 5     | 387871-S2   |

☆ Has Nylon Insert

(continued)

# Standard and Utility Parts Catalog

**PH-44      BOLT — HEXAGON HEAD — SHOULDER (Cont'd)**

| Metric Coarse Thread |          |         |         |         |       |      |              |                 |               |
|----------------------|----------|---------|---------|---------|-------|------|--------------|-----------------|---------------|
| NOMINAL SIZE         | A        | B       | C       | D       | E     | TYPE | LOCATOR CODE | P/C             | PART NUMBER   |
| M8                   | 55mm     |         | 15mm    | 5.50mm  |       | 2    | AB-109-D     | 10.9 or 10.92   | N803674-S100  |
| M10                  | 40mm     |         | 17.3mm  | 12.9mm  | 8.85  | 3    | 010-010      |                 | N808800-S60   |
| M12                  | 70mm     | 31mm    | 20.8mm  | 9.5mm   |       | 3    | 010-010      |                 | N808234-S426  |
| M12                  | 70mm     | 62.5mm  | 20.8mm  | 9.5mm   | —     | 3    | AB-109-F     |                 | N808234-S439  |
| M14                  | 65mm     | 49mm    | 9.5mm   | 7.5mm   | —     | 3    | AB-109-Z     | —               | N803989-S426  |
| M6                   | 96mm     | 40mm    | 17mm    | 56mm    |       | 4    | AB-450-A     |                 | W704849-S309  |
| M5                   | 60mm     | 47mm    | 24.7mm  | 13mm    | M12   | 7    | AB-111-EP    | 9.81, 9.82      | N606082-S60   |
| M5.3                 | 24mm     | 16mm    | 13.3mm  | 8.0mm   | —     | 7    | AB-111-EP    | —               | W709884-S438  |
| M6                   | 17mm     | 12mm    | 5.0mm   | 14.1mm  | —     | 7    | AB-111-EH    | 010             | W709809-S439  |
| M6                   | 17mm     | 12mm    | 12.17mm | 6.85mm  |       | 7    | AB-111-Z     |                 | W701805-S426  |
| M6                   | 25mm     | 1mm     |         |         |       | 7    | AB-111-FJ    | 9.8             | N802449-S190  |
| M6                   | 27.50mm  | 13.00mm | 13.6mm  | 14.50mm | 8.2mm | 7    | AB-111-AA    | 8.8             | W704551-S438  |
| M6                   | 52mm     | —       | —       | —       |       | 7    | AB-111-FM    | 9.8             | N807179-S1000 |
| M7                   | 52mm     | 18mm    | 13.6mm  |         |       | 7    | AB-111-L     | 8.8             | W703133-S300  |
| M10                  | 31mm     | 15mm    | 16mm    | 10mm    | 10mm  | 7    | AB-111-EB    | 10.9            | N802097-S100  |
| M10                  | 40mm     | 30mm    | 20.8mm  | 10mm    | 10mm  | 7    | AB-111-EA    | 9.8             | N605803-S36   |
| M10                  | 40mm     | 30mm    | 20.8mm  | 10mm    | 10mm  | 7    | AB-111-EA    | 9.8             | N605803-S100  |
| M10                  | 40mm     | 30mm    | 20.8mm  | 10mm    | 10mm  | 7    | AB-111-EA    | 9.8             | N605803-S427  |
| M10                  | 40mm     | 30mm    | 20.8mm  | 10mm    | 10mm  | 7    | AB-111-EA    | 9.8             | N605803-S437  |
| M10                  | 40mm     | 30mm    | 28.8mm  | 10mm    | 10mm  | 7    | AB-111-EP    | 9.8             | N605803-S426  |
| M10                  | 55mm     | 20mm    | 17mm    | 35mm    | 10mm  | 7    | AB-111-EC    | 9.8             | N802209-S100  |
| M10                  | 60mm     | 25.4mm  | 33.7mm  | 34.6mm  | M10   | 7    | AB-111-EJ    | 10.9            | N811098-S426  |
| M10                  | 70mm     | 26mm    | 28mm    | 40mm    | 15mm  | 7    | AB-111-H     | 9.8             | N801509-S2    |
| M10                  | 80mm     |         | 20.8mm  | 11mm    | 10mm  | 7    | AB-111-R     | 9.8             | N606068-S100  |
| M10                  | 80mm     | —       | 20.8mm  | 11mm    | 10mm  | 7    | AB-111-R     | 9.8             | N606068-S437  |
| M12                  |          |         | 24mm    | 18mm    | 15mm  | 7    | AB-111-LL    | 8.8             | W706429-S900  |
| M12                  | 35mm     | 25.5mm  | 15mm    | 9.5mm   | —     | 7    | AB-111-FN    | 10.9            | N805163-S100  |
| M12                  | 48mm     | 30.5mm  | 15mm    | 12mm    | —     | 7    | AB-111-FH    | —               | N808354-S     |
| M12                  | 55mm     | 22mm    | 24.7mm  | 24.25mm | 12mm  | 7    | AB-111-FP    | 8.8             | W703363-S309  |
| M12                  | 62mm     | 24.7mm  | 13mm    | 11mm    | —     | 7    | AB-111-FF    | 9.8             | N606085-S426  |
| M12                  | 75mm     | 1.75mm  | —       | —       | —     | 7    | AB-111-FG    | —               | N606085-S60   |
| M12                  | 146.30mm | 46.1mm  | 26.6mm  | 100.2mm | —     | 7    | AB-111-FS    | 10.9            | W709834-S439  |
| M12                  | 214mm    | 47mm    | 24mm    | 16.7mm  | 12mm  | 7    | AB-111-FB    | 10.9            | N802596-S100  |
| M12                  | 233mm    | 31mm    | 28.6mm  | 169mm   | 14mm  | 7    | AB-111-W     | 10.9            | N804635-S150  |
| M14                  | 90mm     | 2mm     | 10.9mm  | —       | —     | 7    | AB-111-LC    | —               | N803960-S60   |
| M14                  | 108mm    | 6mm     | 10mm    |         |       | 7    | AB-111-LM    |                 | W707533-S426  |
| M14                  | 110mm    | 28mm    | 28.6mm  | 81.6mm  | 13mm  | 7    | AB-111-L     | 9.8             | N802136-S2    |
| M20                  | 148.8mm  | 52mm    | 44mm    | 83mm    | 19mm  | 7    | AB-111-ZZ    |                 | W706936-S426  |
| M12                  | 60mm     | —       | 1.75mm  | —       | —     | 9    | AB-113-P     | 10.9            | N806590-S2    |
| M10                  | 94.5mm   | 28mm    | 50mm    | 66.50mm | —     | 10   | AB-115-C     | 10.9            | W707655-S426  |
| M6                   | 25.0mm   | —       | 10.0mm  | —       | —     | 13   | AB-147-F     | 9.8             | N808484-S100  |
| M10                  | 30mm     | —       | 20.0mm  | 13.0mm  | —     | 13   | AB-147-G     | 010             | W707957-S409M |
| M8                   | 65mm     | 1.25mm  | 12.87mm | —       | —     | 14   | AB-152-BK    | —               | N807683-S60   |
| M8                   | 108mm    | 34mm    | 17.32mm | 71mm    | —     | 14   | AB-152-BR    | 10.9            | N804834-S36B  |
| M20                  | 175mm    | 87mm    | 31.5mm  | 33mm    | —     | 15   | AB-113-Q     | 10.9            | N806591-S150  |
| M20                  | 189mm    | 87mm    | 31.5mm  | 33mm    | —     | 15   | AB-113-R     | 10.9            | N806592-S150  |
| M5                   | 55mm     |         | 4.4mm   | 6.5mm   | 2.5mm | 18   | AB-110-E     | 9.8             | N606525-S57   |
| M8                   | 24.5mm   | 23mm    | 15mm    | 4mm     | 3mm   | 18   | AB-150-A     | 8.8             | W701725-S309  |
| M8                   | 24.5mm   | 23mm    | 15mm    | 4mm     | 3mm   | 18   | AB-150-A     | 8.8             | W701725-S437  |
| M8                   | 34.3mm   | 30mm    | 17mm    | 2.21mm  | —     | 18   | AB-153       | 8.8             | W701240-S309  |
| M10                  | 42.5mm   | 22mm    | 17mm    | 15.5mm  | 7mm   | 18   | AB-113-T     | 9.8             | N811766-S100  |
| M5                   | 20mm     | 20mm    | 11.4mm  | —       | —     | 21   | AB-175-HH    | 9.8,9.81,9.82   | N605880-S100  |
| M5                   | 20mm     | 20mm    | 11.4mm  | —       | —     | 21   | AB-175-HH    | 9.8,9.81,9.82   | N605880-S437  |
| M5                   | 25.0mm   | 25.0mm  | 11.4mm  | —       | 3.6mm | 21   | AB-175-HK    | 9.8,9.81,9.82   | N606500-S8    |
| M6                   | 18.1mm   | 15.85mm | 17mm    | 2.25mm  | 4.4mm | 21   | AB-175-HC    | 8.8             | W701723-S309  |
| M6                   | 18.1mm   | 15.85mm | 17mm    | 2.25mm  | 4.4mm | 21   | AB-175-HC    | —               | W701723-S437  |
| M6                   | 20mm     | 20mm    | 13.6mm  | —       | —     | 21   | AB-175-HJ    | —               | N605892-S427  |
| M6                   | 20.0mm   | 18.89mm | 8mm     | 2.21mm  | —     | 21   | AB-175-HK    | 9.8, 9.81, 9.82 | N807131-S309  |

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BOLT — HEXAGON HEAD — SHOULDER (Cont'd)

| Metric Coarse Thread (Cont'd) |         |         |         |        |        |      |              |               |               |
|-------------------------------|---------|---------|---------|--------|--------|------|--------------|---------------|---------------|
| NOMINAL SIZE                  | A       | B       | C       | D      | E      | TYPE | LOCATOR CODE | P/C           | PART NUMBER   |
| M6                            | 20.5mm  | 18mm    | —       | —      | —      | 21   | AB-175-HD    |               | N807075-S1100 |
| M6                            | 22mm    | —       | 13.6mm  | —      | 3.25mm | 21   | AB-175-CF    | —             | W700005-S309  |
| M6                            | 22.5mm  | 20mm    | 13.6mm  | —      | 8mm    | 21   | AB-175-GP    |               | N605892-S55   |
| M6                            | 25mm    | —       | 13mm    | 15mm   | 4.35mm | 21   | AB-175-CD    |               | N605893-S101  |
| M6                            | 25mm    | 23mm    | 14.7mm  | .7mm   | —      | 21   | AB-175-HE    |               | N807079-S36   |
| M6                            | 33.0mm  | 30.8mm  | 16.26mm | 2.2mm  | 8mm    | 21   | AB-175-HY    | 9             | N808429-S309  |
| M6                            | 33.0mm  | 30.8mm  | 16.26mm | 2.2mm  | 8mm    | 21   | AB-175-HY    | 9             | N808429-S437  |
| M6                            | 44.5mm  | 34mm    | 17mm    | 8mm    | 8mm    | 21   | AB-175-GH    | —             | N807210-S43B  |
| M6                            | 45mm    | 25mm    | 18.9mm  | 5.5mm  | 7.8mm  | 21   | AB-175-FA    | 8.8           | W709775-S437  |
| M6                            | 45mm    | 25mm    | 14.5mm  | 5.5mm  | —      | 21   | AB-175-G     | 8.8           | W710758-S437  |
| M6                            | 49mm    | 11mm    | 8mm     | 37mm   | 1.5mm  | 21   | AB-175-GC    |               | N804397-S190  |
| M8                            | 8mm     | 22mm    | 17mm    | —      | 4mm    | 21   | AB-175-AA    | 8.8           | W500319-S309  |
| M8                            | 8mm     | 22mm    | 17mm    | —      | 4mm    | 21   | AB-175-AA    | 8.8           | W500319-S437  |
| M8                            | 16mm    | —       | 17mm    | 7.4mm  | M5.9mm | 21   | AB-111-FR    | 9.81          | N605904-S426  |
| M8                            | 23mm    | 21.2mm  | 23.6mm  | 1.8mm  | 8mm    | 21   | AB-175-YD    | 8.8           | W701020-S309  |
| M8                            | 26mm    | 23mm    | —       | 3.0mm  | —      | 21   | AB-175-HZ    |               | N811571-S431  |
| M8                            | 26mm    | 21mm    | 20.8mm  | 4mm    | 6.1mm  | 21   | AB-175-GJ    | 10.9          | N806413-S36   |
| M8                            | 28mm    | 17mm    | 19mm    | —      | 10mm   | 21   | AB-175-HA    |               | N806784-S2    |
| M8                            | 32mm    | 29mm    | —       | —      | 1.25mm | 21   | AB-175-GX    |               | N805731-S100  |
| M8                            | 32.5mm  | —       | 16mm    | 11mm   | 6mm    | 21   | AB-175-LC    | —             | W707308-S426  |
| M8                            | 39mm    | 32.34mm | 17mm    | .66mm  | 10mm   | 21   | AB-175-HS    | —             | W701625-S431  |
| M8                            | 39.3mm  | —       | 20.8mm  | —      | 6.1mm  | 21   | AB-175-HX    |               | W704424-S309  |
| M8                            | 40mm    | 47mm    | 17mm    | —      | 8mm    | 21   | AB-175-YB    | 9.8           | N605909-S2    |
| M8                            | 41mm    | 35mm    | 10mm    | —      | —      | 21   | AB-175-YE    | 9.8           | N807182-S36   |
| M8                            | 47.5mm  | 435mm   | 19mm    | 3mm    | 6mm    | 21   | AB-175-GM    | 9.8           | N807461-S36B  |
| M8                            | 90mm    | 45mm    | 17mm    | 45mm   | 7.40mm | 21   | AB-175-YA    | 9.8           | N606050-S52   |
| M8                            | 100mm   | 40mm    | 17mm    | 8mm    | 6.1mm  | 21   | AB-175-GK    | 9.8           | N806720-S8    |
| M8                            | 123mm   | —       | 20.8mm  | —      | 10mm   | 21   | AB-175-HB    |               | ★N806787-S8   |
| M8                            | 130mm   | 40mm    | 17mm    | 8mm    | 6.1mm  | 21   | AB-175-GL    | 9.8           | N806721-S8    |
| M10                           | 20mm    | 14.7mm  | 24.7mm  | —      | 7.8mm  | 21   | AB-175-HC    |               | W700790-S309  |
| M10                           | 20mm    | 15mm    | —       | 5mm    | 10mm   | 21   | AB-111-EG    | 8.8           | W611645-S36   |
| M10                           | 20mm    | 20mm    | 20.27mm | —      | —      | 21   | AB-175-HW    |               | N811095-S439  |
| M10                           | 20mm    | 20mm    | 20.27mm | —      | —      | 21   | AB-175-HW    |               | N811095-S426  |
| M10                           | 22mm    | 22mm    | —       | —      | —      | 21   | AB-175-GV    |               | ★N807218-S101 |
| M10                           | 25.5mm  | —       | —       | —      | —      | 21   | AB-175-NG    | —             | N808378-S36   |
| M10                           | 28.5mm  | 1.5mm   | —       | —      | —      | 21   | AB-111-FK    | 10.9          | N802594-S56   |
| M10                           | 31mm    | 24mm    | 20.8mm  | 7mm    | 13mm   | 21   | AB-175-JA    | 9.8           | ★N811114-S431 |
| M10                           | 35mm    | 19mm    | 20.8mm  | 16mm   | 13mm   | 21   | AB-175-HU    | 9.8,9.81,9.82 | N807031-S309  |
| M10                           | 35mm    | 23mm    | 36.1mm  | 9.6mm  | 8.5mm  | 21   | AB-175-GY    |               | ★N808680-S36B |
| M10                           | 38.5mm  | —       | —       | —      | —      | 21   | AB-175-NH    | 9.8           | N605921-S426  |
| M10                           | 40mm    | 18mm    | 20.8mm  | 19.8mm | 12.0mm | 21   | AB-175-NE    | 9.8           | N802662-S2    |
| M10                           | 43mm    | 31mm    | 24.7mm  | 12.0mm | 7.50mm | 21   | AB-175-NL    | 010           | W708367-S424  |
| M10                           | 50mm    | 25mm    | 20mm    | 11mm   | 10mm   | 21   | AB-111-EF    | 9.8           | N606062-S36   |
| M10                           | 55mm    | 44mm    | 20.8mm  | 11mm   | 9mm    | 21   | AB-175-B     | 9.8           | N606563-S     |
| M10                           | 59.1mm  | —       | 20.8mm  | —      | —      | 21   | AB-175-GZ    |               | N806949-S100  |
| M10                           | 60mm    | —       | 20.8mm  | —      | 7.8mm  | 21   | AB-175-NK    | —             | ★N811360-S309 |
| M10                           | 67.5mm  | 17.3mm  | 20.78mm | 40.5mm | —      | 21   | AB-175-MK    | 10.9          | N806943-S56FM |
| M10                           | 103.5mm | 93mm    | 20.8mm  | 11mm   | 9mm    | 21   | AB-175-TB    | 9.8           | N804774-S100  |
| M12                           | 30mm    | 20mm    | 27mm    | 10mm   | 12mm   | 21   | AB-175-F     | 9.8           | N802273-S2    |
| M12                           | 31mm    | 11.9mm  | 15mm    | 12mm   | —      | 21   | AB-175-GN    | 10.9          | N807146-S100  |
| M12                           | 35mm    | 35mm    | 24mm    | —      | 11mm   | 21   | AB-175-L     | 10.9          | N802114-S100  |
| M12                           | 35mm    | 35mm    | 24mm    | —      | 11mm   | 21   | AB-175-L     | 10.9          | N802114-SA    |
| M12                           | 35mm    | 35mm    | 24.7mm  | —      | 11mm   | 21   | AB-175-V     | 10.9          | N802112-S2    |
| M12                           | 65mm    | 47.5mm  | 24.7mm  | —      | 9.5mm  | 21   | AB-175-HR    | 9.81, 9.82    | N606584-S426  |

(continued)

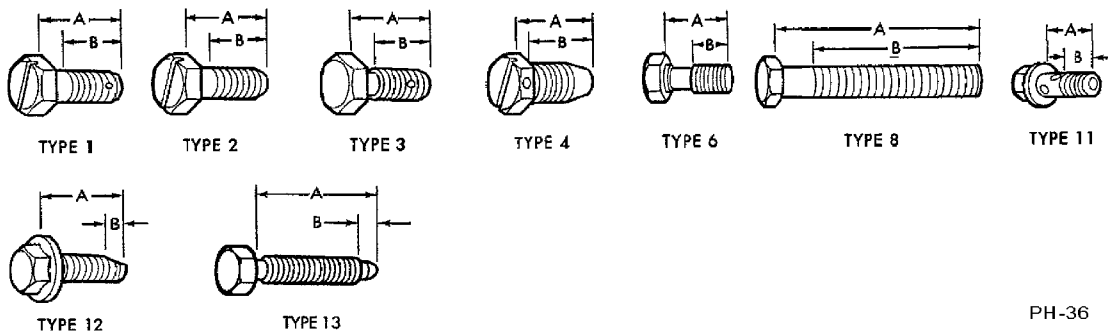
# Standard and Utility Parts Catalog

## PH-44 BOLT — HEXAGON HEAD — SHOULDER (Cont'd)

| Metric Coarse Thread (Cont'd) |         |         |        |         |         |      |              |               |               |
|-------------------------------|---------|---------|--------|---------|---------|------|--------------|---------------|---------------|
| NOMINAL SIZE                  | A       | B       | C      | D       | E       | TYPE | LOCATOR CODE | P/C           | PART NUMBER   |
| M12                           | 75mm    | 35mm    | 24mm   | 35mm    | 11.2mm  | 21   | AB-175-LA    | 9.8           | N606586-S2    |
| M12                           | 80mm    | 36.9mm  | 24.7mm | 13mm    | 6.0mm   | 21   | AB-175-YF    | 9.8           | N808903-S60   |
| M12                           | 80mm    | 36.9mm  | 24.7mm | 13mm    | 6.0mm   | 21   | AB-175-YF    | 9.8           | N808903-S436  |
| M12                           | 95mm    | 37mm    | 18mm   | 58mm    | —       | 21   | AB-175-HV    | 9.8,9.81,9.82 | N807940-S309  |
| M12                           | 110mm   | 50mm    | 24.7mm | 60mm    | 12mm    | 21   | AB-175-ZE    | 9.8           | N802673-S2    |
| M14                           | 30mm    | 15mm    | 28.6mm | 15mm    | 14mm    | 21   | AB-175-ZA    | 9.8           | N605946-S55   |
| M14                           | 50mm    | 25mm    | 18mm   | 25mm    | —       | 21   | AB-111-X     | 9.8           | N805999-S60   |
| M14                           | 86.7mm  | 39.7mm  | 28.6mm | 12.5mm  | 14mm    | 21   | AB-175-ZE    | 10.0          | W704886-S426  |
| M14                           | 86.7mm  | 39.7mm  | 28.6mm | 12.5mm  | 14mm    | 21   | AB-175-ZD    | 10.0          | W704886-S439  |
| M20                           | 127mm   | 57mm    | 45mm   | 30mm    | 16.3mm  | 21   | AB-177-Z     | 9.0           | W707816-S426  |
| M6                            | 70mm    | 18mm    | 13.6mm | 52mm    | —       | 22   | AB-177-H     | 8.8           | W703135-S1300 |
| M8                            | 27mm    | 11mm    | 20.8mm | 6.2mm   | M8      | 22   | AB-177-G     | 8.8           | W700999-S309  |
| M10                           | 110mm   | —       | —      | —       | —       | 22   | AB-177-G     | 10.9          | W702042-S309  |
| M14                           | 92mm    | 40mm    | 28.6mm | 52mm    | M14     | 22   | AB-177-F     | 10.9          | N803990-S160  |
| M8                            | 46mm    | 8.5mm   | 14mm   | 13mm    | 6.1mm   | 24   | AB-177-K     | 9.8           | N806381-S1300 |
| M16                           | 56.0mm  | 13.0mm  | 15.0mm | 14.3mm  | 29.6mm  | 25   | AB-178-A     | 10.9          | W710517-S439  |
| M6                            | 34.8mm  | 20.3mm  | 5.7mm  | 11.4mm  | 18mm    | 26   | AB-179-AA    | —             | W703403-S430  |
| M12                           | 140.5mm | 122.0mm | 50mm   | 10.32mm | 28.51mm | 27   | AB-199       | 10.9          | W710832-S439  |

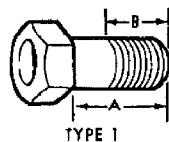
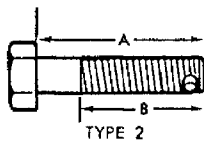
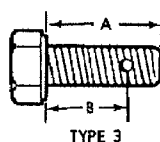
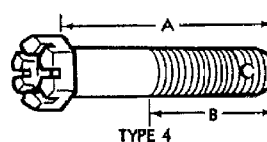
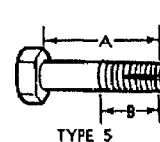
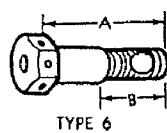
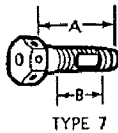
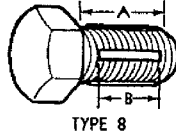
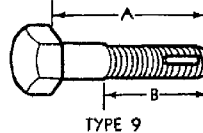
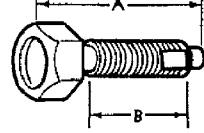
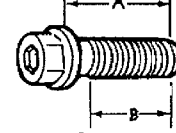
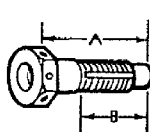
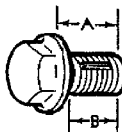
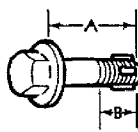
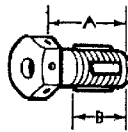
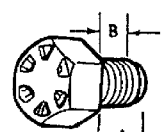
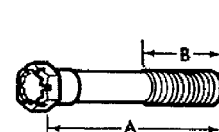
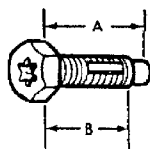
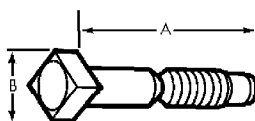
■ Includes Sealer

## PH-36 BOLT or SCREW — HEXAGON HEAD SPECIAL



PH-36

| Metric Coarse Thread |         |        |      |              |      |               |
|----------------------|---------|--------|------|--------------|------|---------------|
| NOMINAL SIZE         | A       | B      | TYPE | LOCATOR CODE | P/C  | PART NUMBER   |
| M6                   | 15.75mm | 4.75mm | 12   | AB-127-J     | 9.81 | N808944-S424  |
| M6                   | 16.1mm  | 5mm    | 12   | AB-127-O     | 8    | W707399-S309  |
| M6                   | 20mm    | 5mm    | 12   | AB-127-P     | —    | W707257-S438  |
| M6                   | 20mm    | 5mm    | 12   | AB-127-P     | —    | W707257-S439  |
| M6                   | 40mm    | 5mm    | 12   | AB-127-M     | 8    | W707440-S301  |
| M6                   | 50mm    | 4.5mm  | 12   | AB-127-H     | 9.8  | N808480-S100  |
| M8                   | 12mm    | 9mm    | 12   | AB-127-PA    | 10.9 | W506420-S426  |
| M14                  | 57mm    | 7mm    | 13   | AB-127-G     | 10.9 | ★N808896-S100 |
| M8                   | 18.5mm  | 4.5mm  | 12   | AB-127-EE    | 9.8  | N807845-S36   |
| M8                   | 18.5mm  | 4.5mm  | 12   | AB-127-EE    | 9.8  | N807845-S424  |
| M8                   | 25mm    | 6mm    | 12   | AB-127-N     | 8    | W707402-S435  |
| M10                  | 23.5mm  | 7.1mm  | 12   | AB-127-B     | 10.9 | N806899-S60   |
| M10                  | 30mm    | 18mm   | 12   | AB-127-Y     | —    | W706496-S301  |
| M10                  | 130mm   | 26mm   | 8    | AB-127-YA    | 8.8  | W700232-S300  |
| M12                  | 25mm    | —      | 12   | AB-127-K     | 8    | W706606-S309  |
| M14                  | 102.5mm | 18mm   | 12   | AB-127-Z     | —    | W707356-S426  |
| M6                   | 25mm    | 3mm    | 13   | AB-127-G     | 8    | W702354-S300  |

**PH-35**
**BOLT — HEXAGON HEAD — SELF-LOCKING**

**TYPE 1**

**TYPE 2**

**TYPE 3**

**TYPE 4**

**TYPE 5**

**TYPE 6**

**TYPE 7**

**TYPE 8**

**TYPE 9**

**TYPE 11**

**TYPE 12**

**TYPE 13**

**TYPE 14**

**TYPE 15**

**TYPE 16**

**TYPE 17**

**TYPE 18**

**TYPE 19**

**TYPE 20**

PH-35  
12/22/2000

**National Coarse Thread**

| DIAMETER | THREAD | A        | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|----------|--------|------|--------------|-------|-------------|
| 3/8"     | 16     | 1-1/2"   | 1"     | 1    | BB-429-AD    | 5     | 389089-S2   |
| 5/16"    | 18     | 5/8"     | 17/32" | 2    | BB-427-Z     | 2     | 382985-S2   |
| 3/8"     | 16     | 1-1/2"   | 1"     | 2    | BB-429-AB    | 8     | 383890-S100 |
| 5/16"    | 18     | 1-11/16" | 7/8"   | 5    | BB-429-JA    | 5     | 387850-S100 |
| 1/4"     | 28     | 47/64"   | 5/8"   | 19   | BB-429-UB    | 8     | 389665-S100 |

**Metric Coarse Thread**

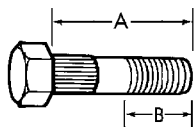
| NOMINAL SIZE | A      | B      | TYPE | LOCATOR CODE | P/C  | PART NUMBER  |
|--------------|--------|--------|------|--------------|------|--------------|
| M12          | 110mm  | 110mm  | 5    | AB-161-B     | 8.8  | E801051-S72  |
| M10          | 25mm   | 25mm   | 9    | AB-40-E      | 10.9 | E800627-S200 |
| M10          | 30mm   | —      | 9    | AB-40-D      | 8.8  | E800476-S76  |
| M8           | 35mm   | 24mm   | 12   | AB-94-H      | —    | W709982-S900 |
| M10          | 24mm   | 22mm   | 12   | AB-119-Q     | —    | W707386-S301 |
| M6           | 10mm   | 1.0mm  | 14   | AB-38-AB     | 9.8  | N605888-S426 |
| M6           | 25mm   | 23mm   | 14   | AB-38-M      | 9.8  | N806933-S102 |
| M6           | 34mm   | 32.6mm | 14   | AB-38-L      | 9.8  | N808336-S100 |
| M10          | 26.5mm | 16.5mm | 14   | AB-38-X      | —    | W706695-S900 |
| M10          | 35mm   | 32mm   | 14   | AB-38-C      | 10.9 | N803942-S100 |
| M10          | 35mm   | 32mm   | 14   | AB-38-C      | 10.9 | N803942-S426 |
| M12          | 64mm   | 24mm   | 20   | AB-44-A      | 9.8  | W706957-S436 |



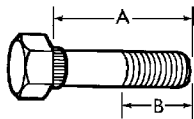
# Standard and Utility Parts Catalog

PH-38

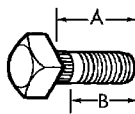
BOLT — HEXAGON — SQUARE HEAD and ROUND HEAD — KNURLED



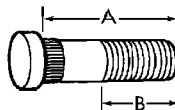
TYPE 1



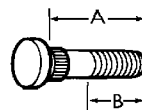
TYPE 2



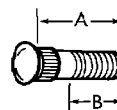
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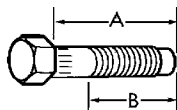
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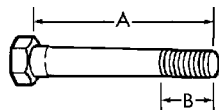
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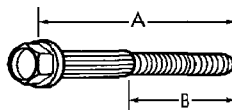
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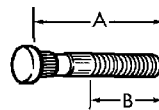
TYPE 8



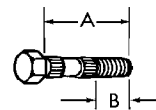
TYPE 9



TYPE 10



TYPE 12



TYPE 13

PH38

## National Coarse Thread

| DIAMETER | THREAD | A       | B    | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|---------|------|------|--------------|-------|-------------|
| 1/2"     | 13     | 1-7/16" | 7/8" | 4    | BB-390-KG    | 5.1   | 385524-S2   |

## National Fine Thread

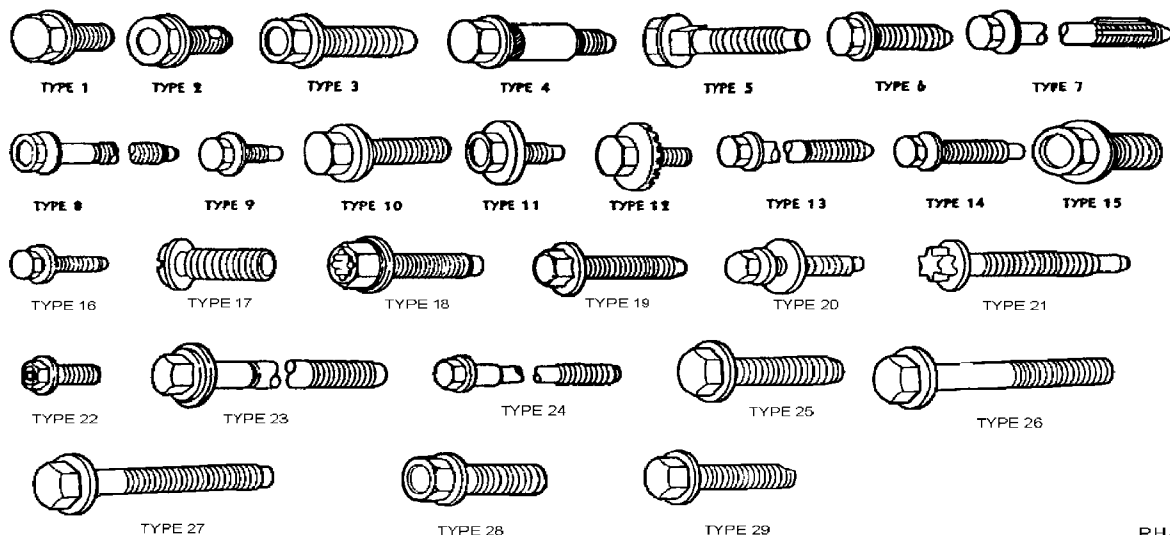
| DIAMETER | THREAD | A      | B        | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|----------|------|--------------|-------|-------------|
| 1/2"     | 20     | 2-3/8" | 1-13/32" | 6    | BB-390-CK    | 8     | 391388-S2   |

## Metric

| NOMINAL SIZE | LENGTH  | TYPE | LOCATOR CODE | P/C  | PART NUMBER  |
|--------------|---------|------|--------------|------|--------------|
| M10          | 55mm    | 2    | AB-206-E     | 9.8  | N801588-S100 |
| M8           | 34mm    | 5    | AB-206-M     | 9.8  | N801055-S2   |
| M8           | 22.2mm  | 6    | AB-212-B     | 10.9 | W709762-S439 |
| M12          | 1.5mm   | 6    | AB-390-E     | 9.8  | W700678-S301 |
| M12          | 49.7mm  | 6    | AB-320-F     | 10.9 | N807467-S60  |
| M14          | 52.00mm | 6    | AB-206-B     | 10.9 | W704708-S428 |
| M10          | 53.34mm | 8    | AB-224-E     | 10   | W709943-S301 |
| M14          | 96.5mm  | 10   | AB-390-AC    | 10.9 | W709841-S439 |
| M12          | 54mm    | 13   | AB-320-E     | 10.9 | E800615-S72  |
| M12          | 54mm    | 13   | AB-320-E     | 10.9 | E800615-S72  |
| M12          | 124.0mm | 13   | AB-320-EA    | —    | W709102-S436 |

PH-168

BOLT or SCREW — HEXAGON WASHER HEAD


PH-168  
1/14/1999

## National Coarse Thread

| DIAMETER | THREAD | LENGTH  | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
|----------|--------|---------|------|--------------|-------|--------------|
| 1/4"     | 20     | 1-1/2"  | 1    | BB-541-AE    | 5.1   | 375050-S     |
| 1/4"     | 20     | 1"      | 1    | BB-541-AC    | 5.1   | 375051-S     |
| 5/16"    | 18     | 3/8"    | 1    | BB-545-CE    | 8     | 389998-S2    |
| 5/16"    | 18     | 1"      | 1    | BB-545-A     | 5     | 376256-S     |
| 5/16"    | 18     | 1-3/4"  | 1    | BB-545-AF    | 8     | 384748-S2    |
| 3/8"     | 16     | 1-9/16" | 1    | BB-545-H     | 5     | 380209-S     |
| 3/8"     | 16     | 1-3/4"  | 1    | BB-545-LC    | 5     | 388635-S2    |
| 7/16"    | 14     | 2-5/8"  | 1    | BB-518-C     | 5     | 390492-S2    |
| 7/16"    | 14     | 6-1/8"  | 1    | BB-518-J     | 5     | 383721-S2    |
| 1/2"     | 13     | 1-1/4"  | 1    | BB-546-C     | 8     | 384234-S100  |
| 7/16"    | 14     | 5-1/2"  | 3    | BB-551-AU    | 5     | 391319-S2    |
| 7/16"    | 14     | 3-1/4"  | 8    | BB-552-E     | 5     | 387364-S2    |
| 9/16"    | 12     | 1-3/4"  | 8    | BB-552-AD    | 8.2   | 390910-S100  |
| 1/4"     | 20     | 15/16"  | 10   | BB-551-CS    | 5.1   | 391496-S2    |
| 5/16"    | 18     | 1-1/8"  | 10   | BB-551-BK    | 5.1   | 391495-S2    |
| 1/2"     | 13     | 1-1/4"  | 10   | BB-551-BH    | 8     | ★390066-S2   |
| No. 8    | 32     | 3/8"    | 11   | BB-551-CA    | —     | 382002-S2    |
| No. 10   | 19     | 3/4"    | 13   | BB-817-XF    | —     | 389915-S2    |
| 3/8"     | 16     | 5-1/2"  | 13   | BB-817-WY    | 5     | 389706-S2    |
| 1/4"     | 20     | 21/32"  | 14   | BB-551-DW    | 8     | 390819-S2    |
| 1/4"     | 20     | 7/8"    | 14   | BB-551-DB    | 5     | 385022-S100  |
| 1/4"     | 20     | 31/32"  | 14   | BB-551-DX    | 8     | 390820-S8    |
| 5/16"    | 18     | 7/8"    | 14   | BB-551-DA    | 5     | 390674-S100  |
| 5/16"    | 18     | 1-1/8"  | 14   | BB-551-DV    | 5     | 390657-S2    |
| 5/16"    | 18     | 1-3/4"  | 14   | BB-551-DM    | 5.1   | 390358-S8    |
| 5/16"    | 18     | 6-1/16" | 14   | BB-551-DY    | 5.1   | 390653-S309  |
| 7/16"    | 14     | 6-1/2"  | 14   | BB-551-AM    | 5     | 387165-S2    |
| 3/8"     | 16     | 1 1/4"  | 15   | BB-416-BF    | 5     | 390530-S2    |
| 5/16"    | 18     | 3/4"    | 15   | BB-416-A     | 5     | 390783-S2    |
| 5/16"    | 18     | 3/4"    | 15   | BB-416-AF    | 8     | 391070-S100  |
| 5/16"    | 18     | 1-1/2"  | 15   | BB-416-BH    | 5     | 390712-S8    |
| 5/16"    | 24     | 1/2"    | 15   | BB-416-AC    | 5     | 391227-S2    |
| 7/16"    | 14     | 3-1/4"  | 15   | BB-416-BS    | 5     | 391210-S2    |
| 1/4"     | 20     | 1.25"   | 18   | BB-541-AA    | 5.1   | 56782-S56    |
| 13.6mm   |        | 25mm    | 23   | BB-541-HM    | 8     | W500215-S427 |
| 5/16"    | 18     | 4.25"   | 23   | BB-545-DE    | 5     | 56135-S36    |

(continued)

### BOLT or SCREW — HEXAGON WASHER HEAD (Cont'd)

| National Fine Thread |        |        |      |              |       |               |
|----------------------|--------|--------|------|--------------|-------|---------------|
| DIAMETER             | THREAD | LENGTH | TYPE | LOCATOR CODE | GRADE | PART NUMBER   |
| 5/16"                | 24     | 1"     | 1    | BB-390-JA    | 8     | 382884-S2     |
| Metric Coarse Thread |        |        |      |              |       |               |
| NOMINAL SIZE         | LENGTH |        | TYPE | LOCATOR CODE | P/C   | PART NUMBER   |
| M6                   | 13mm   | —      | 1    | AB-117-WA    | 8     | W708274-S900  |
| M6                   | 14mm   |        | 1    | AB-117-Z     |       | N605891-S     |
| M6                   | 14mm   |        | 1    | AB-117-AA    |       | N605771-S427  |
| M6                   | 16mm   | —      | 1    | AB-117-ZA    |       | N605891-S103  |
| M6                   | 16mm   | —      | 1    | AB-117-ZB    |       | N605891-S301  |
| M6                   | 16mm   | —      | 1    | AB-117-ZC    |       | N605891-S426  |
| M6                   | 16mm   | —      | 1    | AB-117-ZD    |       | N605891-S437  |
| M6                   | 16mm   |        | 1    | AB-117-C     | 8.8   | E800192-S72   |
| M6                   | 18.5mm | —      | 1    | AB-117-ZE    | 9     | W704652-S426  |
| M6                   | 18.8mm | —      | 1    | AB-117-ZG    | —     | W709435-S437  |
| M6                   | 20mm   |        | 1    | AB-117-F     | 8.8   | E800156-S72   |
| M6                   | 20mm   | —      | 1    | AB-117-FA    | 8.8   | W505424-S301  |
| M6                   | 20mm   |        | 1    | AB-117-WZ    |       | W705968-S306  |
| M6                   | 20mm   | 1.0mm  | 1    | AB-117-B     | —     | N800531-S424  |
| M6                   | 23mm   |        | 1    | AB-117-QR    |       | W706360-S301  |
| M6                   | 23mm   | —      | 1    | AB-117-QR    | —     | N706360-S439  |
| M6                   | 24mm   | —      | 1    | AB-117-HC    | —     | N705132-S439  |
| M6                   | 25mm   |        | 1    | AB-117-H     | 8.8   | E800162-S72   |
| M6                   | 25mm   |        | 1    | AB-117-H     | 8.8   | E800162-S437  |
| M6                   | 30mm   | —      | 1    | AB-150-A     | 8     | W707643-S309  |
| M6                   | 35mm   | —      | 1    | AB-117-N     | 8.8   | E800163-S     |
| M6                   | 40mm   | —      | 1    | AB-117-R     | 8.8   | E800153-S     |
| M6                   | 40mm   |        | 1    | AB-117-R     | 8.8   | E800153-S72   |
| M6                   | 45mm   |        | 1    | AB-117-QZ    |       | W706672-S300  |
| M6                   | 46mm   |        | 1    | AB-117-W     |       | W700514-S309  |
| M8                   | 12mm   |        | 1    | AB-117-WW    |       | W705013-S309M |
| M8                   | 16mm   | —      | 1    | AB-118-LD    |       | W702498-S309M |
| M8                   | 18mm   |        | 1    | AB-118-AB    | 9.8   | N803029-S2    |
| M8                   | 20mm   |        | 1    | AB-118-D     | 9.8   | N605905-S2    |
| M8                   | 20mm   |        | 1    | AB-118-ES    | 9.8   | N602733-S2    |
| M8                   | 35mm   |        | 1    | AB-118-FE    | 8.8   | E800385-S72   |
| M8                   | 35mm   | —      | 1    | AB-118-ET    | 9.8   | N605789-SA    |
| M8                   | 35mm   | —      | 1    | AB-118-ET    | 9.8   | N605789-S1VMR |
| M8                   | 35mm   | —      | 1    | AB-118-ET    | 9.8   | N605789-S101  |
| M8                   | 35mm   | —      | 1    | AB-118-ET    | 9.8   | N605789-S103  |
| M8                   | 35mm   | —      | 1    | AB-118-ET    | 9.8   | N605789-S437  |
| M8                   | 35mm   | —      | 1    | AB-118-ET    | 9.8   | N605789-S1036 |
| M8                   | 45mm   |        | 1    | AB-117-X     |       | E800154-S     |
| M8                   | 65mm   | —      | 1    | AB-118-FA    | —     | N606546-S437  |
| M8                   | 91mm   | —      | 1    | AB-118-JA    | —     | W708309-S437  |
| M10                  | 16mm   |        | 1    | AB-119-W     |       | W700216-S309  |
| M10                  | 20mm   | —      | 1    | AB-119-P     | 10.9  | W705985-S439  |
| M10                  | 23.5mm |        | 1    | AB-120-M     |       | N605918-S309  |
| M10                  | 27mm   |        | 1    | AB-120-AA    | 010   | W708665-S424  |
| M10                  | 30mm   | —      | 1    | AB-119-F     | 8.8   | E800152-SVMR  |
| M10                  | 30mm   |        | 1    | AB-119-F     | 8.8   | E800152-S72   |
| M10                  | 33.5mm |        | 1    | AB-120-O     |       | N605920-S105  |
| M10                  | 33.5mm | —      | 1    | AB-120-O     | —     | N605920-S437  |
| M10                  | 33.5mm | —      | 1    | AB-120-O     | —     | N605920-S60   |
| M10                  | 44mm   | —      | 1    | AB-120-A     | 9.8   | N801677-S51   |
| M10                  | 45mm   | —      | 1    | AB-120-U     | 8.8   | E800003-S100  |
| M10                  | 46mm   |        | 1    | AB-120-Q     |       | W706666-S900  |
| M10                  | 110mm  |        | 1    | AB-120-N     | 12.9  | N801401-S2    |
| M12                  | 26mm   |        | 1    | AB-120-AB    |       | N605933-S426  |
| M12                  | 35mm   |        | 1    | AB-120-NF    | 10.9  | N803203-S100  |
| M12                  | 35mm   |        | 1    | AB-120-Z     |       | W707748-S900  |
| M14                  | 47mm   |        | 1    | AB-120-AZ    | 8     | W706795-S301  |

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BOLT or SCREW — HEXAGON WASHER HEAD (Cont'd)

| Metric Coarse Thread (Cont'd) |         |          |      |              |      |               |
|-------------------------------|---------|----------|------|--------------|------|---------------|
| NOMINAL SIZE                  | LENGTH  |          | TYPE | LOCATOR CODE | P/C  | PART NUMBER   |
| M14                           | 110mm   |          | 1    | AB-120-M     | 9.8  | N606107-S2    |
| M14                           | 130mm   |          | 1    | AB-120-P     | 9.8  | N606109-S2    |
| M8                            | 19.20mm |          | 2    | AB-179-J     | 8.8  | W704331-S427  |
| M8                            | 19.20mm | —        | 2    | AB-179-J     | 8.8  | W704331-S438  |
| M8                            | 53.25mm |          | 2    | AB-118-GD    | 10.9 | N811660-S100  |
| M4.2                          | 10mm    | —        | 3    | AB-179-HA    | —    | N611036-S     |
| M4.2                          | 10mm    | —        | 3    | AB-179-HB    | —    | N611036-S2    |
| M4.2                          | 15mm    |          | 3    | AB-179-K     |      | W505153-S301  |
| M4.2                          | 32mm    | —        | 3    | AB-179-HA    | —    | N610942-S301  |
| M5                            | 10mm    |          | 3    | AB-179-W     | 8.8  | W611621-S301  |
| M5                            | 10mm    |          | 3    | AB-179-W     | 8.8  | W611621-S436  |
| M5                            | 16mm    |          | 3    | AB-179-Y     | 8.8  | W611624-S58   |
| M5                            | 40mm    |          | 3    | AB-179-C     | 9.8  | N605803-S301  |
| M5.9                          | 22.5mm  |          | 3    | AB-179-D     |      | W702706-S301  |
| M5.9                          | 22.5mm  | —        | 3    | AB-179-D     | —    | W702706-S302  |
| M5.9                          | 22.5mm  | —        | 3    | AB-179-D     | —    | W702706-S900  |
| M6                            | 12mm    | —        | 3    | AB-179-E     | 10.9 | W500211-S300  |
| M6                            | 12mm    | —        | 3    | AB-179-E     | 10.9 | W500211-S301  |
| M6                            | 12mm    | —        | 3    | AB-179-E     | 10.9 | W500211-S303  |
| M6                            | 12mm    | —        | 3    | AB-179-E     | 10.9 | W500211-S309  |
| M6                            | 12mm    |          | 3    | AB-179-E     | 10.9 | W500211-S426  |
| M6                            | 12mm    | —        | 3    | AB-179-E     | 10.9 | W500211-S431  |
| M6                            | 16mm    |          | 3    | AB-179-R     | 8    | W701299-S303  |
| M6                            | 27mm    | —        | 3    | AB-179-F     | —    | W705012-S306  |
| M6                            | 31.5mm  | —        | 3    | AB-179-FA    | 8.8  | W709818-S437  |
| M8                            | 1.25mm  |          | 3    | AB-179-I     |      | N811340-S100  |
| M8                            | 16mm    |          | 3    | AB-179-L     |      | N803263-S58   |
| M8                            | 20mm    |          | 3    | AB-179-M     |      | N811013-S60   |
| M8                            | 23mm    |          | 3    | AB-179-N     |      | N811340-S100  |
| M8                            | 23mm    |          | 3    | AB-179-P     |      | N811340-S100  |
| M8                            | 27mm    | —        | 3    | AB-118-EH    | —    | N804804-S2    |
| M8                            | 27mm    |          | 3    | AB-118-EH    |      | N804804-S100  |
| M8                            | 27mm    | —        | 3    | AB-118-EH    | —    | N804804-S103  |
| M8                            | 27mm    | —        | 3    | AB-118-EH    | —    | N804804-S439  |
| M8                            | 32.2mm  | ■ 20.0mm | 3    | AB-118-Z     | 9    | N811664-S101  |
| M8                            | 35mm    | 1.25mm   | 3    | AB-118-EC    | 10   | W709981-S439  |
| 8.2mm                         | 38.1mm  | 19.05mm  | 3    | AB-118-EU    | 8.2  | 391514-S100   |
| M10                           | 35mm    | 1.5mm    | 3    | AB-182-GC    | 10   | W709980-S439  |
| M12                           | 24mm    |          | 3    | AB-182-H     | 10.9 | N807823-S100  |
| M12                           | 37.5mm  |          | 3    | AB-182-GE    | 9.8  | N808788-S100  |
| M12                           | 75mm    |          | 3    | AB-182-D     | 10.9 | W701066-S309  |
| M12                           | 82mm    |          | 3    | AB-182-E     | 9.8  | N808230-S100  |
| M12                           | 110mm   |          | 3    | 010-020      | 10.9 | N800898-S301  |
| M14                           | 77.7mm  |          | 3    | AB-180-H     | 10.9 | N801079-S2    |
| M16                           | 210mm   |          | 3    | AB-180-A     | —    | N803677-S150  |
| M10                           | 38.5mm  | 20.24mm  | 4    | AB-152-FD    | 9.8  | W707769-S900  |
| M10                           | 75.3mm  |          | 5    | AB-152-K     |      | W701507-S309  |
| M12                           | 77.8mm  |          | 4    | AB-182-EC    | 10.9 | N811299-S426  |
| M6                            | 16mm    | 1.0mm    | 6    | AB-118-AE    |      | N811306-S301A |
| M6                            | 22.5mm  |          | 6    | AB-118-AF    | 8.8  | N605892-S105  |
| M6                            | 22.5mm  |          | 6    | AB-118-AH    | 8.8  | N605892-S1036 |
| M6                            | 22.5mm  |          | 6    | AB-118-AJ    | 8.8  | N605892-S     |
| M6                            | 22.5mm  |          | 6    | AB-118-AK    | 8.8  | N605892-SA    |
| M6                            | 22.5mm  |          | 6    | AB-118-AL    | 8.8  | N605892-SB    |
| M6                            | 22.5mm  |          | 6    | AB-118-AG    |      | N605892-S301  |
| M8                            | 18mm    |          | 6    | AB-118-AD    |      | N808916-S60   |
| M8                            | 20mm    |          | 6    | AB-118-CA    | 8.8  | W702756-S309  |
| M8                            | 27.5mm  |          | 6    | AB-118-D     | 9.8  | N805114-S2    |
| M8                            | 28mm    |          | 6    | 070-020      |      | N802455-S60   |
| M8                            | 28mm    |          | 6    | 070-020      |      | N802455-S426  |
| M6                            | 46mm    |          | 7    | AB-138-SS    |      | N808947-S300  |

■ Includes Adhesive

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BOLT or SCREW — HEXAGON WASHER HEAD (Cont'd)

| Metric Coarse Thread (Cont'd) |         |        |      |              |      |               |
|-------------------------------|---------|--------|------|--------------|------|---------------|
| NOMINAL SIZE                  | LENGTH  |        | TYPE | LOCATOR CODE | P/C  | PART NUMBER   |
| M6                            | 25mm    |        | 10   | AB-138-Z     | 9.8  | W707424-S309  |
| M6                            | 27.5mm  | —      | 10   | AB-138-ZB    | —    | N606677-S36   |
| M6                            | 27.5mm  | —      | 10   | AB-138-ZB    | —    | N606677-S427  |
| M6                            | 27.5mm  | —      | 10   | AB-138-ZB    | —    | N606677-S437  |
| M6                            | 35mm    | —      | 10   | AB-138-ZA    | 8.8  | W707845-S301  |
| M8                            | 18mm    |        | 10   | AB-138-XX    |      | W707622-S426  |
| M8                            | 18mm    | —      | 10   | AB-138-XX    | —    | W707622-S439  |
| M8                            | 20mm    |        | 10   | AB-138-L     |      | N605786-S2    |
| M8                            | 30mm    | 20.8mm | 10   | AB-138-SC    | 10.9 | W500425-S303  |
| M8                            | 30mm    | 20.8mm | 10   | AB-138-SD    | 10.9 | W500425-S309  |
| M8                            | 30mm    | 20.8mm | 10   | AB-138-SE    | 10.9 | W500425-S437  |
| M8                            | 30mm    | 20.8mm | 10   | AB-138-SE    | 10.9 | W500425-S438  |
| M10                           | 25mm    |        | 10   | AB-138-M     |      | N605800-S56   |
| M10                           | 30mm    |        | 10   | AB-138-N     |      | N605801-S2    |
| M10                           | 30mm    |        | 10   | AB-138-V     | 9.8  | N811625-S100  |
| M10                           | 40mm    |        | 10   | AB-138-U     | 10.9 | N807470-S36   |
| M10                           | 46mm    | —      | 10   | AB-138-F     | 8.8  | W708955-S437  |
| M12                           | 35mm    |        | 10   | AB-120-NJ    | 10.9 | W500443-S426  |
| M14                           | 35.0mm  |        | 10   | AB-138-S     | 9.8  | N807254-S60   |
| M4                            | 21.5mm  |        | 11   | AB-181-B     | 9.8  | N800506-S40   |
| M4.2                          | 22.0mm  | —      | 11   | AB-181-BA    | —    | N808720-S307  |
| M4.2                          | 22.0mm  | —      | 11   | AB-181-BA    | —    | N808720-S439  |
| M5                            | 12mm    | —      | 11   | AB-181-HA    | 9.0  | N606661-S36B  |
| M6                            | 10mm    | —      | 11   | AB-181-H     | 9.8  | N800576-S426  |
| M6                            | 18.5mm  | 1.0mm  | 11   | AB-181-EE    | —    | N800507-S36   |
| M6                            | 18.5mm  |        | 11   | AB-117-E     | 9.8  | N800510-S100  |
| M6                            | 18.5mm  |        | 11   | AB-117-EA    | 9.8  | N800510-S36   |
| M6                            | 22.5mm  |        | 11   | AB-181-F     | 9.8  | N606676-S100■ |
| M6                            | 22.5mm  | —      | 11   | AB-181-FJ    | 9.8  | N606676-S301A |
| M6                            | 22.5mm  | —      | 11   | AB-181-FH    | 9.8  | N606676-S306  |
| M6                            | 22.5mm  | —      | 11   | AB-181-FK    | 9.8  | N606676-S307  |
| M6                            | 22.5mm  | —      | 11   | AB-181-FB    | 9.8  | N606676-S439  |
| M6                            | 22.5mm  | —      | 11   | AB-181-FL    | 9.8  | N606676-S61   |
| M6                            | 22.5mm  | —      | 11   | AB-181-FN    | 9.8  | N606676-S424  |
| M6                            | 22.5mm  | —      | 11   | AB-181-FM    | 9.8  | N606676-S43B  |
| M6                            | 22.5mm  | —      | 11   | AB-181-FN    | 9.8  | N606676-S421  |
| M6                            | 22.5mm  |        | 11   | AB-181-FA    | 9.8  | N606676-S36   |
| M6                            | 22.5mm  |        | 11   | AB-181-FC    | 9.8  | N606676-S55   |
| M6                            | 22.5mm  |        | 11   | AB-181-FD    | 9.8  | N801271-S100  |
| M6                            | 23.5mm  |        | 11   | AB-181-FF    | 8.8  | E802185-S72   |
| M6                            | 23.25mm |        | 11   | AB-181-FG    | 8.8  | W701504-S309  |
| M6                            | 27.5mm  | —      | 11   | AB-181-GG    | 9.8  | N800947-S55   |
| M6                            | 27.5mm  |        | 11   | AB-181-GA    | 9.8  | N802373-S100  |
| M6                            | 37.5mm  |        | 11   | AB-181-GJ    | 9.8  | N606679-S36   |
| M6                            | 43mm    |        | 11   | AB-181-GK    |      | W704613-S300+ |
| M8                            | 19mm    |        | 11   | AB-181-JE    | 9.8  | N805985-S100  |
| M8                            | 20mm    |        | 11   | AB-187-EN    | 9.8  | N606688-S301  |
| M8                            | 20mm    | —      | 11   | AB-187-EN    | 9.8  | N606688-S309  |
| M8                            | 20mm    | —      | 11   | AB-187-EN    | 9.8  | N606688-S435  |
| M8                            | 21mm    | 16.6mm | 11   | AB-187-EG    | 10   | W709268-S424  |
| M8                            | 23.0mm  |        | 11   | AB-181-T     | —    | N803878-S307  |
| M8                            | 28mm    |        | 11   | AB-187-EA    | 9.8  | N606689-S103  |
| M8                            | 28mm    |        | 11   | AB-187-EL    | —    | N606689-S301  |
| M8                            | 28mm    | —      | 11   | AB-187-EA    | 9.8  | N606689-S437  |
| M8                            | 28mm    |        | 11   | AB-187-EC    | 9.8  | N802227-S2    |
| M8                            | 30mm    | —      | 11   | AB-187-EL    | 9.8  | N606690-S309  |
| M8                            | 33mm    |        | 11   | AB-118-EY    | 9.8  | N803417-S2    |
| M8                            | 37.5mm  | —      | 11   | AB-181-GJ    | 9.8  | N606679-S56   |
| M8                            | 37.5mm  | —      | 11   | AB-181-GJ    | 9.8  | N606679-S426  |
| M8                            | 37.5mm  | —      | 11   | AB-181-GJ    | 9.8  | N606679-S436  |
| M8                            | 38.5mm  |        | 11   | AB-187-EE    | 9.8  | ★N606691-S36  |

■ Includes Adhesive

+ Includes Nylon Patch

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BOLT or SCREW — HEXAGON WASHER HEAD (Cont'd)

| Metric Coarse Thread (Cont'd) |         |   |      |              |               |               |
|-------------------------------|---------|---|------|--------------|---------------|---------------|
| NOMINAL SIZE                  | LENGTH  |   | TYPE | LOCATOR CODE | P/C           | PART NUMBER   |
| M8                            | 53mm    | — | 14   | AB-116-FA    | 9.8           | N606543-S     |
| M8                            | 53mm    | — | 14   | AB-116-FB    | 9.8           | N606543-S426  |
| M8                            | 62mm    |   | 14   | AB-116-GR    | 9.8           | N803485-S2    |
| M8                            | 160.5mm |   | 14   | AB-116-PF    | 9             | N808111-S301  |
| M8                            | 160.5mm | — | 14   | AB-116-PF    | 9             | N808111-S437  |
| M10                           | 19.5mm  |   | 14   | AB-116-FW    | 9.8           | N605917-S2    |
| M10                           | 19.5mm  | — | 14   | AB-116-FW    | 9.8           | N605917-S301  |
| M10                           | 19.5mm  | — | 14   | AB-116-FW    | 9.8           | N605917-S439  |
| M10                           | 21.80mm |   | 14   | AB-116-GY    | 9.8           | N804385-S100  |
| M10                           | 22mm    |   | 14   | AB-116-HT    | 10.9          | N807218-S426  |
| M10                           | 25mm    |   | 14   | AB-116-GG    | 9.8           | N605919-S2    |
| M10                           | 25mm    | — | 14   | AB-116-GG    | 9.8           | N605919-S427  |
| M10                           | 33.5mm  |   | 14   | AB-116-JJ    | 10.9          | N801614-S100  |
| M10                           | 33.5mm  | — | 14   | AB-116-JJ    | 10.9          | N801614-S102  |
| M10                           | 38.5mm  |   | 14   | AB-116-JR    | 10.9          | N805370-S100■ |
| M10                           | 38.5mm  |   | 14   | AB-116-JT    | 10.9          | N806278-S141  |
| M10                           | 45.0mm  | — | 14   | AB-116-JX    | 9.8,9.81,9.82 | N807275-S437  |
| M10                           | 83.5mm  |   | 14   | AB-116-JA    | 9.8           | N805424-S36   |
| M10                           | 83.5mm  | — | 14   | AB-116-JA    | 9.8           | N805424-S437  |
| M10                           | 98mm    |   | 14   | AB-116-JC    | 9.8           | N806225-S8    |
| M12                           | 28mm    |   | 14   | AB-116-JV    | 10.9          | N605933-S2    |
| M12                           | 28mm    | — | 14   | AB-116-JV    | 10.9          | N605933-S102  |
| M12                           | 30mm    |   | 14   | AB-116-K     | 9.8           | N605933-S2    |
| M12                           | 39.5mm  |   | 14   | AB-116-MA    | 10.9          | N803892-S2    |
| M12                           | 39.5mm  | — | 14   | AB-116-MA    | 10.9          | N803892-S426  |
| M12                           | 39.5mm  | — | 14   | AB-116-MA    | 10.9          | N803892-S101  |
| M12                           | 39.5mm  | — | 14   | AB-116-MA    | 10.9          | N803892-S60   |
| M12                           | 44.5mm  |   | 14   | AB-116-M     | 9.8           | N605935-S2    |
| M12                           | 45mm    |   | 14   | AB-116-N     | 10.9          | N803420-S2    |
| M12                           | 114.5mm |   | 14   | AB-116-U     | 10.9          | N800898-S60   |
| M12                           | 186mm   | — | 14   | AB-116-RA    | 9.8           | N803736-S436  |
| M14                           | 20mm    |   | 14   | AB-187-AZ    |               | W707206-S309  |
| M16                           | 35mm    |   | 14   | AB-116-NN    |               | N605947-S100  |
| M16                           | 35mm    | — | 14   | AB-116-NN    | —             | N605947-S426  |
| M4.8                          | 22mm    |   | 15   | AB-117-MN    |               | W704874-S424  |
| M4.8                          | 22mm    |   | 15   | AB-117-MP    |               | W704874-S309U |
| M5                            | 25mm    |   | 15   | AB-116-KC    | 9.8           | N605906-S60   |
| M5                            | 30mm    |   | 15   | 010-020      | 9.8           | N605775-S103  |
| M5                            | 35mm    |   | 15   | 010-020      | 9.8           | N605789-S36   |
| M6                            | 10mm    |   | 15   | AB-128-EC    | 5             | E800155-S72   |
| M6                            | 12mm    |   | 15   | AB-128-EB    | 9.8           | N605770-S2    |
| M6                            | 12mm    | — | 15   | AB-158-EB    | 9.8           | N605770-S36   |
| M6                            | 14mm    | — | 15   | AB-128-E     | 9.8           | N605771-S36   |
| M6                            | 14mm    |   | 15   | AB-128-E     | 9.8           | N605771-S47   |
| M6                            | 14mm    | — | 15   | AB-128-E     | 9.8           | N605771-S100  |
| M6                            | 14mm    |   | 15   | AB-128-ED    | 9.8           | N804040-S2    |
| M6                            | 15.2mm  |   | 15   | AB-117-DB    | 9.8           | N805503-S     |
| M6                            | 15.2mm  | — | 15   | AB-117-DC    | 9.8           | N805503-S301  |
| M6                            | 15.2mm  | — | 15   | AB-117-DC    | 9.8           | N805503-S309  |
| M6                            | 16mm    | — | 15   | AB-117-DA    | 9.8           | N605772-S     |
| M6                            | 18mm    |   | 15   | AB-117-KM    | 9.8           | N802626-S101  |
| M6                            | 18mm    | — | 15   | AB-117-DD    | 9.8           | N802626-S309  |
| M6                            | 18mm    | — | 15   | AB-117-DF    | 10.9          | N805332-S58   |
| M6                            | 19mm    |   | 15   | AB-117-DE    | 10.9          | N805332-S2    |
| M6                            | 20mm    |   | 15   | AB-117-KL    | 9.8           | N805151-S100  |
| M6                            | 20mm    |   | 15   | AB-117-KJ    | 9.8           | N605773-S100  |
| M6                            | 20mm    | — | 15   | AB-117-KM    | 9.8           | N605773-S436  |
| M6                            | 25mm    |   | 15   | AB-117-JJ    | 9.8           | N605774-S2    |
| M6                            | 27mm    | — | 15   | AB-117-JK    | 9.8           | N605893-S100  |
| M6                            | 27mm    | — | 15   | AB-117-JK    | 9.8           | N605893-S101  |
| M6                            | 27mm    | — | 15   | AB-117-JK    | 9.8           | N605893-S1427 |

■ Includes Adhesive

\*Grade Level

(continued)



**PH-168      BOLT or SCREW — HEXAGON WASHER HEAD (Cont'd)**

| Metric Coarse Thread (Cont'd) |        |   |      |              |      |               |
|-------------------------------|--------|---|------|--------------|------|---------------|
| NOMINAL SIZE                  | LENGTH |   | TYPE | LOCATOR CODE | P/C  | PART NUMBER   |
| M6                            | 27mm   | — | 15   | AB-117-JK    | 9.8  | N605893-S36   |
| M6                            | 27mm   | — | 15   | AB-117-JK    | 9.8  | N605893-S437  |
| M6                            | 30mm   |   | 15   | AB-117-JA    | 9.8  | N605775-S100  |
| M6                            | 30mm   |   | 15   | AB-117-JB    | 9.8  | N605775-S103  |
| M6                            | 32mm   |   | 15   | AB-187-FF    | 9.8  | N801380-S100  |
| M6                            | 42.5mm |   | 15   | AB-119-EM    | 9.8  | N805326-S     |
| M6                            | 60mm   | — | 15   | AB-119-EJ    | 9.8  | N606026-S2    |
| M6                            | 60mm   | — | 15   | AB-119-EJ    | 9.8  | N606026-S1000 |
| M6                            | 66mm   |   | 15   | AB-119-EN    | 9.8  | N805327-S     |
| M8                            | 20mm   |   | 15   | AB-122-A     | 9.8  | N605786-S2    |
| M8                            | 20mm   |   | 15   | AB-122-JA    | 10.9 | N805623-S100  |
| M8                            | 23mm   |   | 15   | AB-116-KA    | 9.8  | N605905-S301  |
| M8                            | 23mm   | — | 15   | AB-116-KA    | 9.8  | N605905-S426  |
| M8                            | 23mm   | — | 15   | AB-116-KA    | 9.8  | N605905-S437  |
| M8                            | 23mm   | — | 15   | AB-116-KA    | 9.8  | N605905-S439  |
| M8                            | 25mm   |   | 15   | AB-122-DD    | 8.8  | E800157-S72   |
| M8                            | 25mm   |   | 15   | AB-122-DH    | 9.8  | N605787-S2    |
| M8                            | 25mm   |   | 15   | AB-122-DB    | 9.8  | N605787-S52   |
| M8                            | 25mm   | — | 15   | AB-122-DJ    | 9.8  | N605787-S100  |
| M8                            | 25mm   | — | 15   | AB-122-D     | 9.8  | N605787-S306  |
| M8                            | 25mm   |   | 15   | AB-122-DA    | 9.8  | N605906-S2    |
| M8                            | 25mm   | — | 15   | AB-122-DF    | 9.8  | N605906-S426  |
| M8                            | 25mm   | — | 15   | AB-122-DF    | 9.8  | N605906-S427  |
| M8                            | 25mm   | — | 15   | AB-122-DF    | 9.8  | N605906-S437  |
| M8                            | 30mm   |   | 15   | AB-118-EZ    | 9.8  | N605788-S2    |
| M8                            | 32mm   |   | 15   | AB-118-FP    | 9.8  | N805259-S2    |
| M8                            | 35mm   |   | 15   | AB-118-FB    | 8    | E804522-S200  |
| M8                            | 36.5mm | — | 15   | AB-118-GA    | —    | N806169-S100  |
| M8                            | 40mm   |   | 15   | AB-118-FR    | 9.8  | N605790-S2    |
| M8                            | 45mm   |   | 15   | AB-118-FY    | 9.8  | N606042-S2    |
| M8                            | 45mm   | — | 15   | AB-118-FY    | 9.8  | N606042-S104  |
| M8                            | 47mm   |   | 15   | AB-118-GD    | 8.8  | E800546-S72   |
| M8                            | 70mm   |   | 15   | AB-118-FJ    | 9.8  | N606047-S     |
| M8                            | 70mm   | — | 15   | AB-118-FJ    | 9.8  | N606047-S306  |
| M8                            | 70mm   | — | 15   | AB-122-FJ    | 9.8  | N606047-S102  |
| M8                            | 75mm   |   | 15   | AB-118-GS    | —    | N806171-S2    |
| M10                           | 16mm   |   | 15   | AB-122-CC    | 9.8  | N605798-S100■ |
| M10                           | 20mm   | — | 15   | AB-120-HH    | 9.8  | N605799-S2    |
| M10                           | 20mm   | — | 15   | AB-120-HH    | 9.8  | N605799-S36   |
| M10                           | 20mm   | — | 15   | AB-120-HH    | 9.8  | N605799-S101  |
| M10                           | 20mm   | — | 15   | AB-120-HH    | 9.8  | N605799-S427  |
| NOMINAL SIZE                  | LENGTH |   | TYPE | LOCATOR CODE | P/C  | PART NUMBER   |
| M10                           | 20mm   | — | 15   | AB-120-HH    | 9.8  | N605799-S440  |
| M10                           | 25mm   |   | 15   | AB-187-HH    | 9.8  | N605800-S2    |
| M10                           | 25mm   | — | 15   | AB-187-HG    | 9.8  | N605800-S2    |
| M10                           | 25mm   |   | 15   | AB-187-HG    | 9.8  | N605800-S100  |
| M10                           | 25mm   | — | 15   | AB-187-HG    | 9.8  | N605800-S436  |
| M10                           | 25mm   |   | 15   | AB-187-M     | 10.9 | N801681-S100  |
| M10                           | 29mm   |   | 15   | 010-020      | 10.9 | W705551-S426  |
| M10                           | 30mm   |   | 15   | AB-187-GH    | 9.8  | N605801-S100■ |
| M10                           | 30.6mm |   | 15   | AB-187-GF    | 8.8  | N801954-S2    |
| M10                           | 33mm   | — | 15   | AB-187-JF    | 8.8* | E804595-SVMR  |
| M10                           | 33mm   | — | 15   | AB-187-JF    | 8.8* | E804595-S301  |
| M10                           | 35mm   | — | 15   | AB-187-JJ    | 9.8  | N605802-S36   |
| M10                           | 35mm   | — | 15   | AB-187-JJ    | 9.8  | N605802-S101  |
| M10                           | 35mm   |   | 15   | AB-187-JN    | 9.8  | N605802-S426  |
| M10                           | 38mm   |   | 15   | AB-187-JK    | 9.8  | N801886-S2    |
| M10                           | 38mm   | — | 15   | AB-187-JK    | 9.8  | N801886-S309  |
| M10                           | 39mm   |   | 15   | AB-187-JM    | 9.8  | N805993-S36   |
| M10                           | 40mm   |   | 15   | AB-111-EN    | 9.8  | N806777-S2    |
| M10                           | 40mm   |   | 15   | AB-120-AA    |      | N806777-S100  |

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## PH-168 BOLT or SCREW — HEXAGON WASHER HEAD (Cont'd)

| Metric Coarse Thread (Cont'd) |        |         |    |           |      |               |
|-------------------------------|--------|---------|----|-----------|------|---------------|
| M10                           | 40mm   |         | 15 | 010-020   |      | N806777-S301  |
| M10                           | 43mm   |         | 15 | AB-120-BA | 9.8  | N803807-S     |
| M10                           | 45mm   |         | 15 | AB-120-T  | 9.8  | N605804-S100  |
| M10                           | 45mm   | —       | 15 | AB-120-C  | 9.8  | N605804-S439  |
| M10                           | 50mm   | —       | 15 | AB-120-FE | 9.8  | N605805-S309  |
| M10                           | 65mm   |         | 15 | AB-187-KB | 9.8  | N606065-S2    |
| M10                           | 70mm   | —       | 15 | AB-187-KA | 10.2 | N804518-S426  |
| M10                           | 70mm   | —       | 15 | AB-187-KA | 10.2 | N804518-S427  |
| M10                           | 70mm   | —       | 15 | AB-187-KA | 10.2 | N804518-S439  |
| M10                           | 110mm  |         | 15 | AB-187-KK | 9.8  | N606071-S2    |
| M12                           | 30mm   |         | 15 | 010-020   | 10.9 | W704186-S309  |
| M12                           | 35mm   |         | 15 | AB-119-KA | 10.9 | N802114-S2    |
| M12                           | 40mm   |         | 15 | AB-119-CX | 9.8  | N605816-S2    |
| M12                           | 40mm   | ■ 1.6mm | 15 | AB-119-KF | 10.9 | W709864-S439  |
| M12                           | 45mm   |         | 15 | AB-119-CE | 10.9 | N802115-S2    |
| M12                           | 45mm   | —       | 15 | AB-119-CE | 10.9 | N802115-S426  |
| M12                           | 55mm   | —       | 15 | AB-119-CP | 9.8  | N605819-S426  |
| M12                           | 55mm   | 1.25mm  | 15 | AB-119-CP | 10.9 | W708735-S439  |
| M12                           | 65mm   |         | 15 | AB-122-GA | 9.8  | N606083-S2    |
| M12                           | 65mm   |         | 15 | AB-122-GB | 10.9 | N801332-S170  |
| M12                           | 70mm   |         | 15 | AB-122-CJ | 9.8  | N606082-S2    |
| M12                           | 70mm   | —       | 15 | AB-122-CJ | 9.8  | N606082-S426  |
| M12                           | 70mm   | —       | 15 | AB-119-CU | 9.8  | N606084-S426  |
| M12                           | 90mm   | —       | 15 | AB-122-HH | 9.8  | N606087-S427  |
| M14                           | 55mm   |         | 15 | AB-123-K  | 9.8  | N605831-S2    |
| M14                           | 79mm   | —       | 15 | AB-123-KA | 8    | W708289-S301  |
| M15                           | 32mm   |         | 15 | AB-138-T  | 9.8  | N806000-S60   |
| M16                           | 110mm  |         | 15 | AB-133-E  | 10.9 | N800950-S2    |
| M16                           | 140mm  |         | 15 | AB-133-G  | 10.9 | N805041-S2    |
| M20                           | 167mm  |         | 15 | AB-133-R  | 10.9 | N805558-S2    |
| M4.2                          | 20mm   |         | 16 | AB-310-F  |      | N801460-S2    |
| M6                            | 20mm   |         | 16 | AB-311-F  | 9.8  | N602728-S2    |
| M6                            | 20mm   |         | 16 | AB-311-F  | 9.8  | N602728-S427  |
| M6                            | 25mm   |         | 16 | 070-010   |      | N806181-S2    |
| M8                            | 23mm   |         | 16 | AB-311-Z  |      | N807375-S100  |
| M8                            | 23mm   | —       | 16 | AB-311-ZA | —    | N807375-S309  |
| M8                            | 23mm   | —       | 16 | AB-311-ZB | —    | N807375-S437  |
| M8                            | 23mm   |         | 16 | AB-311-FB | 8.8  | W700436-S309  |
| M12                           | 25mm   |         | 16 | AB-321-Q  |      | W707395-S421  |
| M3                            | 7.4mm  |         | 17 | AB-314-E  | 4.8  | N800544-S51   |
| M4                            | 11mm   |         | 18 | AB-315-A  | 9.8  | N808174-S301  |
| M5                            | 10mm   |         | 18 | AB-116-BB | 9.8  | N605888-S431  |
| M5                            | 25mm   |         | 18 | 010-020   | 8.8  | W500233-S426  |
| M6                            | 27.5mm | 25mm    | 18 | 010-020   | 9.8  | N605893-S56   |
| M6                            | 28mm   | —       | 18 | AB-020-A  | 8    | W707976-S309  |
| M6                            | 28mm   | —       | 18 | AB-020-A  | 8    | W707976-S437  |
| M8                            | 25mm   |         | 18 | AB-122-DG | 9.8  | N605906-S60   |
| M8                            | 30mm   |         | 18 | AB-118-EJ | 10.9 | W703918-S309  |
| M4                            | 16mm   |         | 19 | 070-020   |      | N611174-S56   |
| M4                            | 16mm   | —       | 19 | 070-020   | —    | N611174-S301  |
| M5                            | 35mm   | —       | 19 | AB-321-W  | —    | W706216-S309  |
| M5                            | 35mm   |         | 19 | AB-321-W  |      | W706216-S309  |
| M6                            | 16mm   |         | 19 | AB-321-H  | —    | N803047-S2    |
| M6                            | 16mm   | —       | 19 | AB-321-WC | —    | W505422-S300  |
| M6                            | 16mm   | —       | 19 | AB-321-WS | —    | W505422-S301  |
| M6                            | 16mm   | —       | 19 | AB-321-WC | —    | W505422-S306  |
| M6                            | 16mm   | —       | 19 | AB-321-WR | —    | W505422-S309  |
| M6                            | 16mm   | —       | 19 | AB-321-WR | —    | W505422-S438  |
| M6                            | 16mm   | —       | 19 | AB-321-WR | —    | W505422-S439  |
| M6                            | 32.5mm |         | 19 | AB-321-D  | 9.8  | N807496-S2    |
| M6                            | 47mm   |         | 19 | AB-321-QZ | —    | N807192-S309M |
| M8                            | 15mm   | —       | 19 | AB-321-ZA | 9.8  | W708051-S309  |

■ Includes Adhesive

(continued)

**PH-168      BOLT or SCREW — HEXAGON WASHER HEAD (Cont'd)**

| Metric Coarse Thread (Cont'd) |         |        |      |              |               |                |
|-------------------------------|---------|--------|------|--------------|---------------|----------------|
| NOMINAL SIZE                  | LENGTH  |        | TYPE | LOCATOR CODE | P/C           | PART NUMBER    |
| M8                            | 23mm    |        | 19   | AB-321-ZZ    | —             | N801571-S426   |
| M8                            | 25mm    |        | 19   | AB-321-C     | 10.9          | N804743-S8     |
| M8                            | 30mm    | —      | 19   | AB-135-S     | —             | W500204-S421   |
| M8                            | 30mm    | —      | 19   | AB-135-S     | 8.8           | W500204-S424   |
| M8                            | 30mm    | —      | 19   | AB-135-S     | —             | W500204-S437   |
| M8                            | 30mm    |        | 19   | AB-321-XX    | —             | W706974-S306   |
| M8                            | 35.5mm  |        | 19   | AB-321-DQ    | —             | N801357-S424   |
| M8                            | 96mm    |        | 19   | AB-321-DN    | 8.8           | W702301-S309M  |
| M10                           | 40.85mm |        | 19   | AB-321-DP    | —             | N804266-S424   |
| M12                           | 30mm    |        | 19   | AB-321-Y     | —             | W707378-S309   |
| M12                           | 94.8mm  |        | 19   | AB-321-J     | 9.8           | N808698-S100   |
| M12                           | 107.2mm |        | 19   | AB-120-NH    | 9.8           | N811782-S301   |
| M12                           | 112mm   |        | 19   | AB-119-CY    | 2.9           | N808852-S1100  |
|                               | 25mm    |        | 20   | 010-020      | 8.2           | N811441-S55    |
| M6                            | 17.8mm  |        | 20   | AB-324-Q     |               | W705629-S309M  |
| M6                            | 18.5mm  |        | 20   | AB-324-P     | —             | N606675-S301   |
| M6                            | 20mm    | —      | 20   | AB-321-GA    | —             | W700516-S309   |
| M6                            | 22.5mm  |        | 20   | AB-324-E     | 9.8           | N805454-S2     |
| M6                            | 22.5mm  |        | 20   | AB-324-G     |               | W701585-S309   |
| M6                            | 22.5mm  | —      | 20   | AB-324-GA    | —             | W701585-S437   |
| M6                            | 27.5mm  |        | 20   | AB-324-F     | 9.8           | N806155-S2     |
| M6                            | 27.5mm  | —      | 20   | AB-324-FB    | 9.8           | N806155-S437   |
| M6                            | 32.5mm  | —      | 20   | AB-321-M     | 9             | N606678-S438   |
| M6                            | 32.5mm  | —      | 20   | AB-321-LA    | 9.8,9.81,9.82 | N806154-S437   |
| M6                            | 45mm    | —      | 20   | AB-321-G     | 10            | W710203-S439   |
| M6                            | 66.25mm |        | 20   | AB-118-LG    |               | ★ W701592-S309 |
| M6                            | 66.25mm | —      | 20   | AB-118-LG    | —             | W701592-S437   |
| M6                            | 74.5mm  |        | 20   | AB-118-GV    | 9             | N808598-S309   |
| M8                            | 16mm    |        | 20   | AB-118-LB    | 8.8           | W701522-S309   |
| M8                            | 34.3mm  |        | 20   | AB-321-K     | 8.8           | W701240-S309   |
| M8                            | 45mm    |        | 20   | AB-118-GT    | 8.8           | W701524-S309   |
| M8                            | 45mm    | —      | 20   | AB-118-GT    | 8.8           | W701524-S437   |
| M8                            | 59mm    |        | 20   | AB-118-GU    | 9             | N811334-S309   |
| M8                            | 59mm    | —      | 20   | AB-118-GU    | 9             | N811334-S437   |
| M8                            | 74.3mm  |        | 20   | AB-321-J     | 8.8           | W701526-S309   |
| M8                            | 74.3mm  | —      | 20   | AB-321-J     | 8.8           | W701526-S437   |
| M8                            | 92mm    |        | 20   | AB-324-L     | 9.0           | N811011-S309   |
| M16                           | 123mm   | —      | 20   | AB-324-R     | 10.9          | W709284-S426   |
| M12                           | 75.5mm  | 43.5mm | 21   | AB-330-E     | 8.8           | W710186-S439   |
| M12                           | 95.5mm  | 43.5mm | 21   | AB-330-EA    | 8.8           | W710187-S439   |
| M5                            | 15mm    | —      | 22   | AB-331-F     | —             | W700501-S303   |
| M5                            | 15mm    | —      | 22   | AB-331-G     | —             | W700501-S309   |
| M5                            | 15mm    | —      | 22   | AB-331-H     | —             | W700501-S435   |
| M12                           | 34.5mm  |        | 22   | AB-331-E     | 10.9          | N805655-S190   |
|                               | 75mm    |        | 23   | 010-020      | 10            | 56738-S2       |
| M6                            | 60mm    |        | 23   | AB-116-BC    | 8.8           | W701569-S100   |
| M8                            | 33mm    |        | 23   | 010-020      | 10.9          | N808349-S100   |
| M8                            | 60mm    |        | 23   | 010-020      | 8.8           | W704920-S309   |
| M8                            | 71mm    |        | 23   | AB-332-EC    | 8.8           | W704694-S309   |
| M8                            | 71mm    | —      | 23   | AB-332-EC    | 8.8           | W704694-S437   |
| M8                            | 98.5mm  |        | 23   | AB-332-EG    |               | W705858-S301   |
| M8                            | 98.5mm  | —      | 23   | AB-332-EN    |               | W705858-S301   |
| M8                            | 99mm    |        | 23   | AB-332-EB    | 8.8           | W704693-S309   |
| M8                            | 99mm    | —      | 23   | AB-332-EB    | 8.8           | W704693-S437   |
| M10                           | 99.1mm  |        | 23   | 010-020      | 10            | W705517-S426   |
| M10                           | 153mm   | 5.3mm  | 23   | AB-332-EE    | 8.8           | W704697-S309   |
| M12                           | 69mm    |        | 23   | AB-116-KM    | 10.9          | W705315-S426   |
| M12                           | 75.5mm  |        | 23   | AB-120-NH    | 10.9          | N804641-S426   |
| M12                           | 110mm   |        | 23   | AB-120-NK    | 9.8           | N802673-S426   |
| M12                           | 245mm   |        | 23   | 010-020      | 10.9          | W705457-S426   |
| M14                           | 93.8mm  |        | 23   | 010-020      | 10            | W705552-S426   |

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BOLT or SCREW — HEXAGON WASHER HEAD (Cont'd)

| Metric Coarse Thread (Cont'd) |         |         |      |              |               |                |
|-------------------------------|---------|---------|------|--------------|---------------|----------------|
| NOMINAL SIZE                  | LENGTH  |         | TYPE | LOCATOR CODE | P/C           | PART NUMBER    |
| M14                           | 103.4mm |         | 23   | 010-020      | 10            | W704888-S426   |
| M14                           | 128.5mm |         | 23   | 010-020      | 10            | W705516-S426   |
| M8                            | 65mm    | 45mm    | 24   | AB-118-HK    | 9.8           | N811025-S1     |
| M10                           | 55mm    | —       | 24   | AB-332-EJ    | 9.8,9.81,9.82 | N805425-S36    |
| M10                           | 78.5mm  |         | 24   | AB-332-EH    | 9.8           | N807240-S309   |
| M10                           | 78.5mm  | —       | 24   | AB-332-EH    | 9.8           | N807240-S437   |
| M12                           | 57.7mm  | —       | 24   | AB-120-NG    | 9.8           | N811779-S436   |
| M12                           | 65mm    | —       | 24   | AB-120-NF    | 9.8           | N606083-S36    |
| M12                           | 65mm    |         | 24   | AB-120-NF    | 9.8           | N606083-S426   |
| M12                           | 65mm    | —       | 24   | AB-120-NF    | 9.8           | N606083-S427   |
| M14                           | 108mm   |         | 24   | AB-182-AD    | 9.8           | N807280-S412   |
| M14                           | 122.5mm |         | 24   | AB-332-AD    | 10.9          | N806567-S60    |
| M14                           | 124.4mm |         | 24   | AB-332-EM    | 8.8           | N806383-S426   |
| M16                           | 120mm   |         | 24   | AB-332-ED    | 10.9          | N808264-S60A   |
| M16                           | 120mm   | —       | 24   | AB-332-EJ    | 10.9          | N808264-S426   |
| M5                            | 16mm    | —       | 25   | AB-150-A     | 8.8           | W505413-S309   |
| M6                            | 28mm    | —       | 25   | AB-150-C     | 9.8           | N807364-S309   |
| M6                            | 28mm    | —       | 25   | AB-150-C     | 9.8           | N807364-S428   |
| M6                            | 28.3mm  |         | 25   | AB-150-X     | 8.8           | N803298-S8     |
| M6                            | 40mm    |         | 25   | AB-150-Y     | 8.8           | ★ N806757-S101 |
| M10                           | 16mm    |         | 25   | 010-020      | 8.8           | W500031-S309   |
| M10                           | 30mm    | —       | 25   | AB-150-YA    | 8.8           | W505444-S436   |
| M10                           | 57.5mm  | —       | 25   | AB-150-YB    | 9.8           | N808142-S437   |
| M12                           | 43.5mm  |         | 25   | AB-150-Q     |               | N803203-S426   |
| M12                           | 66mm    |         | 25   | AB-116-KL    | 10.9          | N808590-S426   |
| M6                            | 40mm    |         | 26   | AB-117-LP    | 9.8           | N800670-S1000  |
| M6                            | 66mm    |         | 26   | AB-117-AX    |               | W701544-S300   |
| M6                            | 66mm    | —       | 26   | AB-117-AX    | —             | W701544-S437   |
| M6                            | 81mm    |         | 26   | AB-117-XX    |               | W706155-S421   |
| M6                            | 81mm    | —       | 26   | AB-117-XX    | —             | W706155-S437   |
| M6                            | 105mm   | 45.00mm | 26   | AB-117-YA    | 8             | W706375-S309   |
| M6                            | 105mm   | 45.00mm | 26   | AB-117-YA    | 8             | W706375-S437   |
| M8                            | 20mm    |         | 26   | AB-117-X     |               | W700064-S309   |
| M12                           | 52.5mm  |         | 26   | AB-117-Y     |               | W701512-S301   |
| M12                           | 63mm    |         | 26   | AB-117-AY    |               | W707788-S301   |
| M12                           | 75mm    |         | 26   | AB-116-KN    | 6.6           | W702859-S309   |
| M14                           | 30mm    |         | 26   | AB-117-LL    | 9.8           | N605827-S426   |
| M14                           | 45mm    |         | 26   | AB-117-LN    | 9.8           | N605829-S2     |
| M14                           | 50mm    |         | 26   | AB-117-LM    | 9.8           | N605842-S2     |
| M4                            | 16mm    | 0.7     | 27   | AB-117-AE    |               | N602703-S309   |
| M5                            | 5mm     |         | 27   | 010-020      | 9.8           | ★ N606024-S36  |
| M5                            | 20mm    |         | 27   | 010-020      | 8.8           | W500123-S309   |
| M5                            | 26mm    |         | 27   | AB-118-X     |               | ★ W701663-S421 |
| M5                            | 110mm   |         | 27   | 010-020      | 9.8           | N606571-S309   |
| M6                            | 30mm    |         | 27   | 010-020      | 8.8           | W500326-S309   |
| M6                            | 37mm    |         | 27   | AB-117-AB    | 8.8           | W704751-S309   |
| M6                            | 41mm    |         | 27   | AB-117-AA    | 8.8           | W701973-S300   |
| M6                            | 41mm    | —       | 27   | AB-117-AA    | 8.8           | W701973-S437   |
| M6                            | 45mm    |         | 27   | 010-020      |               | N808890-S1100  |
| M6                            | 50mm    | —       | 27   | AB-117-AR    | 9.8,9.81,9.82 | N606024-S437   |
| M6                            | 50mm    |         | 27   | 010-020      | 8.8           | W500122-S309   |
| M6                            | 80mm    |         | 27   | 010-020      | 8.8           | W500147-S309   |
| M6                            | 98mm    | 45mm    | 27   | AB-117-AN    | 8.8           | W707083-S437   |
| M8                            | 30mm    | 1.25    | 27   | AB-118-XA    | 8             | W709356-S301   |
| M8                            | 33mm    | 1.25    | 27   | AB-117-AG    |               | N605907-S103   |
| M8                            | 33mm    | 1.25mm  | 27   | AB-117-AG    | —             | N605907-S309   |
| M8                            | 40mm    |         | 27   | AB-117-AC    | 8.8           | W704749-S427   |
| M8                            | 43mm    |         | 27   | AB-118-XX    |               | N806156-S301   |
| M8                            | 43mm    | —       | 27   | AB-118-XX    | —             | N806156-S309   |
| M8                            | 43mm    | —       | 27   | AB-118-XX    | —             | N806156-S437   |
| M8                            | 123mm   |         | 27   | AB-117-AD    | 9.8           | N811319-S309   |

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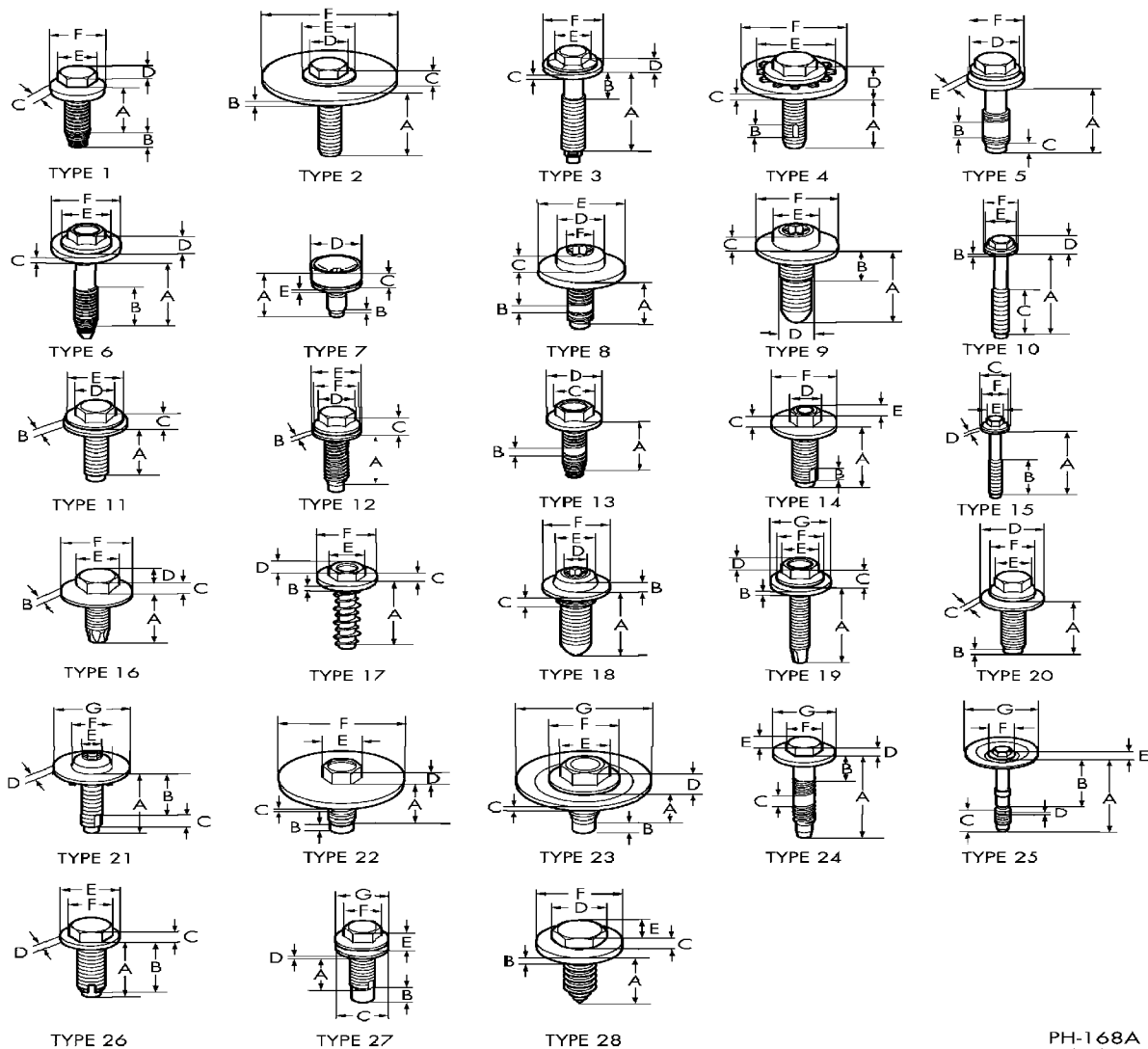
# Standard and Utility Parts Catalog

**PH-168      BOLT or SCREW — HEXAGON WASHER HEAD (Cont'd)**

| Metric Coarse Thread (Cont'd) |         |        |      |              |      |               |
|-------------------------------|---------|--------|------|--------------|------|---------------|
| NOMINAL SIZE                  | LENGTH  |        | TYPE | LOCATOR CODE | P/C  | PART NUMBER   |
| M10                           | 50mm    |        | 27   | 010-020      | 8.8  | W500122-S309  |
| M10                           | 137mm   |        | 27   | 010-020      | 9.8  | N808871-S301  |
| M12                           | 70mm    |        | 27   | 010-020      | 8.8  | W500364-S309  |
| M12                           | 70mm    |        | 27   | 010-020      | 10.9 | W500745-S309  |
| M12                           | 83mm    |        | 27   | AB-117-AF    | 10.9 | W704586-S426  |
| M12                           | 163mm   | 50.0mm | 27   | AB-117-AK    | 10   | W708091-S426  |
| M12                           | 212mm   |        | 27   | AB-117-AH    | 10.9 | W706329-S426+ |
| M14                           | 73.25mm |        | 27   | 010-020      | 10   | W705677-S301  |
| M16                           | 115mm   |        | 27   | 010-020      | 10.9 | N808264-S61   |
| M16                           | 243MM   | 90mm   | 27   | AB-117-AL    | 10.9 | W707968-S426  |
| M16                           | 243MM   | 90mm   | 27   | AB-117-AL    | 10.9 | W707968-S439  |
| M5                            | 20mm    |        | 28   | 010-020      | 9.8  | N605773-S428  |
| M5                            | 25mm    |        | 28   | 010-020      | 9.8  | N605787-S309  |
| M6                            | 22.5mm  |        | 28   | AB-120-N     |      | N605892-S426  |
| M6                            | 42mm    |        | 28   | AB-120-M     |      | W703852-S309  |
| M10                           | 23.5mm  |        | 28   | AB-120-P     |      | N605918-S2    |
| M10                           | 25mm    |        | 28   | 010-020      | 10.9 | N808939-S1100 |
| M10                           | 25mm    | 1.5mm  | 28   | AB-120-V     | 10   | W709583-S439  |
| M10                           | 30mm    |        | 28   | AB-120-R     |      | W706894-S301  |
| M10                           | 35mm    | —      | 28   | AB-120-RA    | 10.9 | W702257-S309  |
| M10                           | 38mm    |        | 28   | AB-120-J     |      | N811848-S426  |
| M10                           | 51.5mm  | 1.5mm  | 28   | AB-120-AA    | 13   | N808927-S309  |
| M14                           | 50mm    |        | 28   | AB-120-JJ    |      | W707292-S426  |
| M14                           | 65mm    |        | 28   | AB-120-T     |      | W707353-S426  |
| M18                           | 48mm    | —      | 28   | AB-120-TA    | 10.9 | W708082-S426  |
| M5                            | 12mm    |        | 29   | 010-020      | 8.8  | W500020-S309  |
| M6                            | 16mm    |        | 29   | AB-117-Q     |      | W707400-S301  |
| M6                            | 16mm    | —      | 29   | AB-117-Q     | —    | W707400-S307  |
| M6                            | 18mm    | —      | 29   | AB-117-QA    | 8    | W707491-S309M |
| M6                            | 18mm    | —      | 29   | AB-117-QA    | 8    | W707491-S437M |
| M6                            | 19mm    |        | 29   | AB-117-LL    |      | W704726-S301  |
| M6                            | 20mm    |        | 29   | AB-117-L     |      | W707257-S309  |
| M6                            | 20mm    |        | 29   | AB-117-Z     |      | W707398-S435  |
| M6                            | 25mm    | —      | 29   | AB-117-ZA    | 8.8  | W500015-S424  |
| M6                            | 33mm    | —      | 29   | AB-117-ZB    | 010  | W706862-S301  |
| M8                            | 20mm    |        | 29   | AB-117-Y     |      | W707402-S301  |
| M8                            | 22mm    |        | 29   | AB-117-W     |      | W707401-S435  |
| M8                            | 30mm    |        | 29   | AB-117-AW    |      | W707374-S309  |
| M8                            | 30mm    | —      | 29   | AW-117-AW    | —    | W707374-S438  |
| M8                            | 30mm    | —      | 29   | AW-117-AX    | —    | W707474-S424  |
| M8                            | 54mm    | —      | 29   | AW-117-AY    | 9.8  | N808794-S     |
| M10                           | 38.6mm  |        | 29   | 010-020      | 9.8  | N808928-S60   |
| M10                           | 40mm    | 7.6mm  | 29   | 010-020      | 9.8  | N811659-S60   |

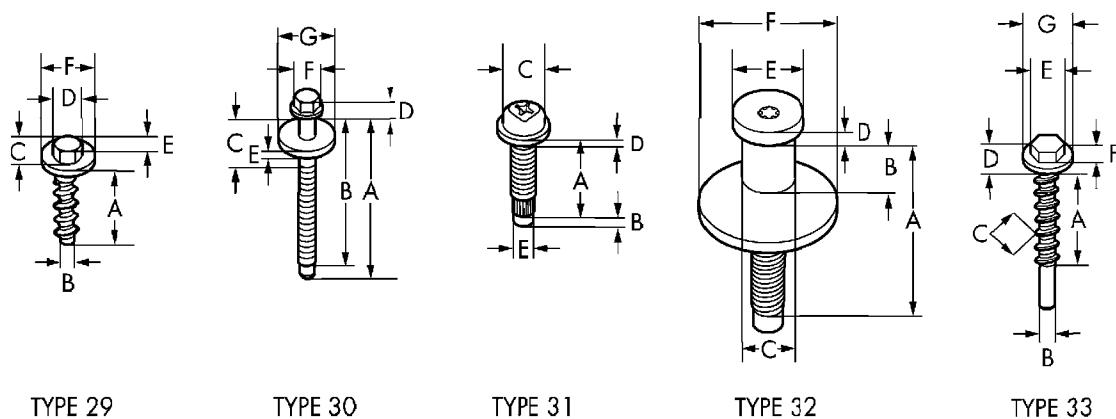
+ Includes Nylon Patch

## PH-168(A) BOLT or SCREW and WASHER — HEXAGON OR PAN HEAD — SPECIAL



PH-168A  
12/19/2002

## PH-168(B) BOLT or SCREW



PH-168(B)  
11/24/2004

(continued)

# Standard and Utility Parts Catalog

## PH-168(B) BOLT or SCREW and WASHER — HEXAGON OR PAN HEAD — SPECIAL (Cont'd)

| NOMINAL SIZE | Metric   |         |        |         |         |         |   | TYPE | LOCATOR CODE | PART NUMBER                    |
|--------------|----------|---------|--------|---------|---------|---------|---|------|--------------|--------------------------------|
|              | A        | B       | C      | D       | E       | F       | G |      |              |                                |
| M5           | 14mm     | 3.9mm   | 1.4mm  | 1.8mm   | 8mm     | 14.57mm | — | 1    | WC-130-AA    | W505412-S424                   |
| M5           | 25mm     | 3.9mm   | 1.4mm  | 1.8mm   | 8mm     | 14.57mm | — | 1    | WC-130-AD    | W505416-S424                   |
| M5           | 25mm     | 3.9mm   | 1.4mm  | 1.8mm   | 8mm     | 14.57mm | — | 1    | WC-130-AD    | W505416-S437                   |
| M6           | 10mm     | 4.5mm   | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-AM    | W709562-S301<br>Conical washer |
| M6           | 15mm     | 8.25mm  | 1.8mm  | 5.00mm  | 10mm    | 20mm    | — | 1    | WC-130-K     | W708272-S306                   |
| M6           | 18mm     | 7mm     | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-G     | W505423-S301                   |
| M6           | 18mm     | 7mm     | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-D     | W505423-S424                   |
| M6           | 18mm     | 7mm     | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-G     | W505423-S438                   |
| M6           | 18mm     | 7mm     | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-G     | W505423-S439                   |
| M6           | 20mm     | 4.5mm   | 1.8mm  | 4.15mm  | 10mm    | 17.57mm | — | 1    | WC-130-R     | W505424-S436                   |
| M6           | 20mm     | 4.5mm   | 1.8mm  | 4.15mm  | 10mm    | 17.57mm | — | 1    | WC-130-R     | W505424-S438                   |
| M6           | 20.42mm  | \$4.5mm | 2.2mm  | 4.15mm  | 10mm    | 18.00mm | — | 1    | WC-130-EA    | W709032-S426                   |
| M6           | 24mm     | —       | 1.39mm | 4.83mm  | 11.11mm | 16mm    | — | 1    | WC-130-L     | W708311-S301                   |
| M6           | 24mm     | —       | 1.39mm | 4.83mm  | 11.11mm | 16mm    | — | 1    | WC-130-L     | W708311-S424                   |
| M6           | 25mm     | 3.9mm   | 1.4mm  | 1.8mm   | 8mm     | 14.57mm | — | 1    | WC-130-AD    | W505416-S306                   |
| M6           | 25mm     | 4.0mm   | .5mm   | 4.15mm  | 10mm    | 17.57mm | — | 1    | WC-130-A     | W505425-S301                   |
| M6           | 25mm     | 4.0mm   | .5mm   | 4.15mm  | 10mm    | 17.57mm | — | 1    | WC-130-A     | W505425-S424                   |
| M6           | 25mm     | 4.0mm   | .5mm   | 4.15mm  | 10mm    | 17.57mm | — | 1    | WC-130-A     | W505425-S438                   |
| M6           | 26mm     | 3mm     | 1.8mm  | —       | 8mm     | 13.6mm  | — | 1    | WC-130-J     | W701662-S309                   |
| M6           | 30mm     | 4.5mm   | 1.8mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-N     | W505426-S301                   |
| M6           | 30mm     | 4.5mm   | 1.8mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-N     | W505426-S437                   |
| M6           | 30mm     | 4.5mm   | 1.8mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-N     | W505426-S439                   |
| M6           | 35mm     | 7mm     | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-E     | W505427-S301                   |
| M6           | 35mm     | 7mm     | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-F     | W505427-S307                   |
| M6           | 40mm     | 4.5mm   | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-C     | W505428-S301                   |
| M6           | 40mm     | 4.5mm   | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-C     | W505428-S437                   |
| M6           | 40mm     | 4.5mm   | 2.2mm  | 4.15mm  | 10mm    | 18mm    | — | 1    | WC-130-C     | W505428-S439                   |
| M8           | 14mm     | 9mm     | 2.7mm  | 5.45mm  | 13mm    | 24mm    | — | 1    | WC-130-T     | W505430-S426                   |
| M8           | 25mm     | —       | 2.62mm | 5.84mm  | 13.00mm | 22.61mm | — | 1    | WC-130-L     | N801921-S301                   |
| M8           | 25mm     | 9mm     | 2.7mm  | 5.45mm  | 13mm    | 24mm    | — | 1    | WC-130-U     | W505433-S424                   |
| M8           | 25mm     | 9mm     | 2.7mm  | 5.45mm  | 13mm    | 24mm    | — | 1    | WC-130-U     | W505433-S438                   |
| M8           | 25mm     | 9mm     | 2.7mm  | 5.45mm  | 13mm    | 24mm    | — | 1    | WC-130-H     | W505434-S424                   |
| M8           | 25mm     | 9mm     | 2.7mm  | 5.45mm  | 13mm    | 24mm    | — | 1    | WC-130-H     | W505434-S426                   |
| M8           | 30mm     | 9mm     | 2.7mm  | 5.45mm  | 13mm    | 24mm    | — | 1    | WC-130-F     | W505435-S301                   |
| M8           | 40mm     | 6.0mm   | 2.3mm  | 5.45mm  | 13mm    | 23.48mm | — | 1    | WC-130-M     | W505437-S426                   |
| M8           | 50mm     | 6.0mm   | 2.7mm  | 5.54mm  | 14.26mm | 18.6mm  | — | 1    | WC-130-MA    | W710071-S439                   |
| M10          | 25mm     | 7.6mm   | 2.7mm  | 6.58mm  | 15mm    | 30mm    | — | 1    | WC-130-S     | W505443-S426                   |
| M10          | 25mm     | 7.6mm   | 2.7mm  | 6.58mm  | 15mm    | 30mm    | — | 1    | WC-130-S     | W505443-S439                   |
| M12          | 40mm     | 13mm    | 4.3mm  | 7.68mm  | 18mm    | 36mm    | — | 1    | WC-130-Z     | W505465-S439                   |
| M12          | 64mm     | 9.0mm   | 2.7mm  | 5.4mm   | 15.00mm | 24.7mm  | — | 1    | WC-130-M     | W708572-S426                   |
| M6           | 20mm     | 2.69mm  | 6.2mm  | 10mm    | 11.54mm | 25.50mm | — | 2    | WC-135       | W708029-S439                   |
| M8           | 20mm     | 1.7mm   | —      | 10mm    | —       | 42mm    | — | 2    | WC-135-B     | W707959-S426                   |
| M8           | 20mm     | 1.7mm   | —      | 10mm    | —       | 42mm    | — | 2    | WC-135-B     | W707959-S439                   |
| M8           | \$24.0mm | 3.0mm   | 5.54mm | 13mm    | 15mm    | 30mm    | — | 2    | WC-135-E     | W703617-S439                   |
| M12          | 65mm     | 3mm     | 11.9   | 24.7mm  | 15mm    | 47mm    | — | 2    | WC-135-C     | W709433-S439                   |
| M12          | 113mm    | 4mm     | 6.9    | 15mm    | 24.7    | 70mm    | — | 2    | WC-135-A     | W706464-S426                   |
| M8           | 37.5mm   | —       | 2.21mm | —       | —       | 16mm    | — | 3    | AB-118-HJ    | W707781-S426                   |
| M12          | 85mm     | 20.5mm  | 3.0mm  | 7.7mm   | 18mm    | 32mm    | — | 3    | AB-117-AM    | W708539-S436                   |
| M12          | 95mm     | 35mm    | 3.94mm | 15.5mm  | 15mm    | 30mm    | — | 3    | WC-136-A     | W706614-S426                   |
| M6           | 31mm     | 12mm    | 4.5mm  | 14.48mm | 1.8mm   | 13.6mm  | — | 5    | AB-117-AZ    | W701568-S101                   |
| M6           | 31mm     | 12mm    | 4.5mm  | 14.48mm | 1.8mm   | 13.6mm  | — | 5    | AB-117-AZ    | W701568-S309                   |
| M6           | 62.7mm   | 1.8mm   | 40mm   | 6.3mm   | 13.6mm  | 14.48mm | — | 6    | AB-117-AP    | W709552-S437                   |
| M12          | 60mm     | 30mm    | 2.5mm  | 11.9mm  | 24.7mm  | 25mm    | — | 6    | AB-332-G     | W709181-S439                   |
| M12          | 60mm     | 30mm    | 3mm    | 15mm    | 24.7mm  | 50mm    | — | 6    | AB-332-F     | W708614-S439                   |
| M12          | 65mm     | \$35mm  | 3mm    | 11.9mm  | 24.7mm  | 34mm    | — | 6    | AB-332-H     | W710024-S439                   |
| M12          | 75mm     | \$43mm  | 5mm    | 10.32mm | 26.5mm  | 40.0mm  | — | 6    | AB-332-J     | W710833-S439                   |
| M12          | 75mm     | \$43mm  | 5mm    | 7mm     | 23.2mm  | 40.0mm  | — | 6    | AB-332-K     | W710834-S439                   |
| M12          | 90mm     | \$50mm  | 3.5mm  | 11.9mm  | 24.7mm  | 32mm    | — | 6    | AB-332-M     | W709527-S439                   |
| M12          | 103.2mm  | 43mm    | 2.1mm  | 12.9mm  | 19.68mm | 28.6mm  | — | 6    | AB-117-LR    | W708659-S426                   |
| M12          | 119mm    | 51mm    | 5mm    | —       | —       | 40mm    | — | 6    | AB-332-EH    | W708330-S301                   |
| M12          | 126.5mm  | 40.0mm  | 2.4mm  | 11.9mm  | 22.5mm  | 32.0mm  | — | 6    | AB-332-EK    | W709323-S301                   |

# Standard and Utility Parts Catalog

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## PH-168(B) BOLT or SCREW and WASHER — HEXAGON OR PAN HEAD — SPECIAL (Cont'd)

| Metric (cont'd) |          |          |        |         |         |         |   |      |              |                |
|-----------------|----------|----------|--------|---------|---------|---------|---|------|--------------|----------------|
| NOMINAL SIZE    | A        | B        | C      | D       | E       | F       | G | TYPE | LOCATOR CODE | PART NUMBER    |
| M14             | 45.5mm   | \$24.0mm | 4.3mm  | 13.9mm  | 18.00mm | 28.00mm | — | 6    | AB-117-JZ    | W707284-S426   |
| M14             | 130.8mm  | \$48.0mm | 5.2mm  | 40.25mm | 18mm    | 22mm    | — | 6    | AB-332-EL    | W709861-S426   |
| M16             | 136mm    | 37mm     | 5.2mm  | 14.3mm  | 21mm    | 32.8mm  | — | 6    | AB-332-EG    | W708146-S426   |
| M5              | 14.85mm  | 1.6mm    | 7.2mm  | 13mm    | 1.6mm   | —       | — | 7    | AB-333-A     | W708086-S437   |
| M5              | 21.42mm  | 2.75mm   | 7.2mm  | 13.0mm  | 1.9mm   | —       | — | 7    | AB-333-B     | W708086-S437   |
| M4              | 19.42mm  | \$7mm    | 3.0mm  | 8.0mm   | 11.00mm | 3.94mm  | — | 8    | WC-138-A     | W707535-S309U  |
| M6              | 25mm     | —        | 4.4mm  | 12mm    | 19mm    | —       | — | 8    | WC-137-A     | ★W709147-S900  |
| M8              | 25mm     | \$3.75mm | 6.0mm  | 16mm    | 24mm    | 6.76mm  | — | 8    | WC-137-A     | W707064-S424   |
| M10             | 35mm     | 96.0mm   | 7.40mm | 15.60mm | 20.0mm  | 7.8mm   | — | 8    | WC-137-B     | W705613-S436   |
| ST6             | 36.5mm   | 15.25mm  | 4.95mm | 8.9mm   | 12.5mm  | 21mm    | — | 9    | AB-300-A     | W705989-S900   |
| M6              | 50mm     | 1.8mm    | 30mm   | —       | 10mm    | 13.6mm  | — | 10   | AB-117-YC    | W709168-S437   |
| M8              | 18mm     | 4.3mm    | 12mm   | 7.0mm   | 10.00mm | 14.2mm  | — | 10   | AB-117-AN    | N800025-S301   |
| M10             | \$55.6mm | 25.0mm   | 4.75mm | 9.7mm   | 13.00mm | 25.4mm  | — | 10   | WC-117-YR    | W711116-S439   |
| M10             | 101mm    | 2.87mm   | 55mm   | 22.61mm | 15mm    | 20.8mm  | — | 10   | AB-117-YB    | W708490-S437   |
| M5              | 13.35mm  | 1.8mm    | 3.85mm | —       | 8.0mm   | —       | — | 11   | AB-187-DC    | W710006-S424   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M5              | 20.5mm   | 1.8mm    | —      | 8mm     | 11.4mm  | —       | — | 11   | AB-187-DA    | W705870-S437   |
| M5              | 23.25mm  | 1.8mm    | —      | 7mm     | 14.4mm  | —       | — | 11   | AB-187-DB    | W701708-S437   |
| M5              | 27.5mm   | 1.8mm    | —      | 8mm     | 13.6mm  | —       | — | 11   | AB-118-XA    | W708833-S437   |
| M6              | 27.50mm  | 1.8mm    | 5.00mm | 9.25mm  | 19.43mm | —       | — | 11   | WC-314-A     | N807151-S424   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M8              | 22.0mm   | 1.8mm    | 5.2mm  | 14.26mm | 17.00mm | —       | — | 11   | AB-118-YA    | W709636-S437   |
| M8              | 25mm     | 2.21mm   | 5.6mm  | 13mm    | 16.26mm | —       | — | 11   | AB-117-WC    | N807959-S309   |
| M8              | 25mm     | 2.21mm   | 5.6mm  | 13mm    | 16.26mm | —       | — | 11   | AB-117-WD    | N807959-S426   |
| M8              | 25mm     | 2.21mm   | 5.6mm  | 13mm    | 16.26mm | —       | — | 11   | AB-117-WA    | N807959-S437   |
| M8              | 139.5mm  | 2.21mm   | 6.63mm | 15.0mm  | 16.5mm  | —       | — | 11   | AB-118-Y     | W705793-S437   |
| M10             | 62mm     | 2.62     | —      | 13mm    | 22.61mm | —       | — | 11   | AB-120-JK    | N808713-S309   |
| M10             | 62mm     | 2.62     | —      | 13mm    | 22.61mm | —       | — | 11   | AB-120-JK    | N808713-S437   |
| M5              | 12mm     | 1.42mm   | —      | 7mm     | 11.34mm | —       | — | 12   | AB-314-B     | N808874-S414   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M5              | 12mm     | 1.42     | —      | 7mm     | 11.34mm | —       | — | 12   | AB-314-B     | N808874-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M5              | 37.5mm   | —        | 5.8mm  | 10mm    | 16.00mm | 13.6mm  | — | 12   | AB-314-E     | W708165-S437   |
| M6              | 14mm     | 1.8mm    | 6.8mm  | 8mm     | 13.6mm  | 14.48mm | — | 12   | WC-120-L     | W503272-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 18mm     | 1.8mm    | 6.8mm  | 8mm     | 13.6mm  | 14.48mm | — | 12   | WC-120-K     | W503273-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 18.00mm  | —        | 5.0mm  | 8.71mm  | 8.0mm   | 14.0mm  | — | 12   | WC-120-N     | W710557-S424   |
| M6              | 20mm     | 1.8mm    | 8.3mm  | 13.6mm  | 14.48mm | 14.15mm | — | 12   | WC-120-F     | W708365-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 23mm     | 1.8mm    | —      | 8mm     | 16mm    | 13.6mm  | — | 12   | AB-314-D     | W704641-S309   |
| M6              | 23mm     | 1.8mm    | —      | 8mm     | 16mm    | 13.6mm  | — | 12   | AB-314-C     | W704641-S437   |
| M6              | 25mm     | 1.8mm    | 8.3mm  | 13.8mm  | 14.48mm | 14.15mm | — | 12   | WC-120-G     | W708366-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 28mm     | 1.27mm   | 4.24mm | 10mm    | —       | 19mm    | — | 12   | WC-120-D     | W707554-S301   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 35mm     | 1.8mm    | 6.9mm  | 8mm     | 14.48mm | —       | — | 12   | AB-314-BC    | W701607-S309   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 35mm     | 1.8mm    | 6.9mm  | 8mm     | 14.48mm | —       | — | 12   | AB-314-BA    | W701607-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 43mm     | 1.8mm    | —      | 8mm     | 13.6mm  | —       | — | 12   | WC-120-H     | W701573-S309   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 43mm     | 1.8mm    | —      | 8mm     | 13.6mm  | —       | — | 12   | WC-120-J     | W701573-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 43.5mm   | 2.21mm   | —      | 8mm     | —       | 17.15mm | — | 12   | WC-120-C     | W708242-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 45mm     | 1.8mm    | 6.8mm  | 8mm     | 14.48mm | 13.6mm  | — | 12   | WC-120-B     | W503282-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |
| M6              | 130mm    | 1.8mm    | —      | 8mm     | 14.48mm | 13.6mm  | — | 12   | AB-314-BE    | W701909-S437   |
|                 |          |          |        |         |         |         |   |      |              | Conical washer |

\$ = Adhesive

(continued)



**PH-168(B) BOLT or SCREW and WASHER — HEXAGON OR PAN HEAD — SPECIAL (Cont'd)**

| Metric (cont'd) |         |          |         |         |         |         |   |      |              |  |
|-----------------|---------|----------|---------|---------|---------|---------|---|------|--------------|--|
| NOMINAL SIZE    | A       | B        | C       | D       | E       | F       | G | TYPE | LOCATOR CODE | PART NUMBER                            |
| M8              | 35mm    | 2.21mm   | 8.5mm   | 10mm    | 19.43mm | 17mm    | — | 12   | WC-120-A     | W503297-S437<br>Conical washer         |
| M8              | 35mm    | 2.2mm    | 11.4mm  | 16.32mm | 15.00mm | 22.0mm  | — | 12   | WC-120-F     | W709122-S442                           |
| M8              | 36mm    | 2.21mm   | 8.0mm   | 10mm    | 17mm    | —       | — | 12   | AB-314-BD    | W701625-S437<br>Conical washer         |
| M8              | 45mm    | 2.21mm   | 8.5mm   | 10mm    | 19.43mm | 17mm    | — | 12   | AB-130-BA    | W503298-S309<br>Conical washer         |
| M10             | 26.6mm  | 2.8mm    | 9.7mm   | 13.0mm  | 20.0mm  | 30.00mm | — | 12   | WC-120-M     | W709428-S424                           |
| M10             | 30mm    | 32mm     | 7.10mm  | 13.0mm  | 15.0mm  | 25.78mm | — | 12   | WC-120-FA    | W710259-S424                           |
| M10             | 75.0mm  | 2.62mm   | 9.7mm   | 13mm    | 20.8mm  | 22.61mm | — | 12   | AB-315-A     | W709454-S426                           |
| M6              | 21.1mm  | %8.0mm   | 8.00mm  | 16.3mm  | —       | —       | — | 13   | WC-200-C     | W708568-S301<br>Conical spring washer  |
| M6              | 21.1mm  | %8.0mm   | 8.00mm  | 16.3mm  | —       | —       | — | 13   | WC-200-C     | W708568-S424<br>Conical spring washer  |
| M6              | 35mm    | \$6mm    | 8mm     | 27mm    | —       | —       | — | 13   | WC-200-N     | W710317-S439                           |
| M10             | 33.42mm | %9.0mm   | 24.7mm  | 28.00mm | —       | —       | — | 13   | WC-200-R     | W710202-S437                           |
| M10             | 35mm    | \$14mm   | 15.0mm  | 23.0mm  | —       | —       | — | 13   | WC-200-K     | ★ W709582-S439                         |
| M10             | 35.3mm  | \$9.0mm  | 13.00mm | 25.8mm  | —       | —       | — | 13   | WC-200-D     | W708812-S426<br>Conical washer         |
| M12             | 30.0mm  | \$12.7mm | 18.00mm | 24.00mm | —       | —       | — | 13   | WC-200-E     | W704797-S301                           |
| M12             | 38.5mm  | \$2.8mm  | 15mm    | 26.0mm  | —       | —       | — | 13   | WC-200-B     | W708601-S427<br>Conical toothed washer |
| M12             | 44.5mm  | \$28.0mm | 15.00mm | 4.00mm  | —       | —       | — | 13   | WC-200-F     | W708446-S426                           |
| M14             | 45.4mm  | 24mm     | 18.00mm | —       | —       | —       | — | 13   | WC-200-H     | W709222-S426                           |
| M14             | 45.5mm  | 24.0mm   | 18mm    | 40mm    | —       | —       | — | 13   | WC-200-M     | W708795-S439<br>fLAT washer            |
| M6              | 45.4mm  | 7mm      | —       | 8mm     | —       | 19.43mm | — | 14   | WC-121-B     | W708191-S900<br>Conical washer         |
| M8              | 37.55mm | 10.5mm   | 6.2mm   | 11.55mm | 10.00mm | 22.6mm  | — | 14   | WC-121-A     | W708327-S435<br>Conical washer         |
| M8              | 116.3mm | 30mm     | —       | 10mm    | —       | 17mm    | — | 14   | WC-123-A     | W704916-S309<br>Conical washer         |
| M6              | 60mm    | 30mm     | 14.48mm | 1.8mm   | 8mm     | 13.6mm  | — | 15   | WC-122-B     | W701569-S101<br>Conical washer         |
| M6              | 60mm    | 30mm     | 14.48mm | 1.8mm   | 8mm     | 13.6mm  | — | 15   | WC-122-C     | W701569-S437<br>Conical washer         |
| M8              | 149.3mm | 50mm     | 19.43mm | 2.21mm  | 13mm    | 20.8mm  | — | 15   | WC-122-D     | W709787-S437<br>Conical washer         |
| M10             | 101mm   | 55mm     | 22.61mm | 2.21mm  | 15.00mm | 20.8mm  | — | 15   | WC-122-G     | W709986-S437<br>Conical washer         |
| M10             | 156.8mm | 26mm     | 25.78mm | 3.20mm  | 13mm    | 20.8mm  | — | 15   | WC-122-F     | W707116-S437<br>Conical washer         |
| M6              | 18.0mm  | 1.6mm    | 4.24mm  | 10.95mm | 10.00mm | 14.0mm  | — | 16   | WC-300-R     | W709970-S900                           |
| M6              | 21.39mm | 1.39mm   | 6.9mm   | 8mm     | 9.23mm  | 13.97mm | — | 16   | WC-300-E     | W706287-S439                           |
| M6              | 21.39mm | 1.39mm   | 6.9mm   | 8mm     | 9.23mm  | 13.97mm | — | 16   | WC-300-E     | W706287-S440M                          |
| M6              | 21.39mm | 1.39mm   | 6.9mm   | 8mm     | 9.23mm  | 13.97mm | — | 16   | WC-300-E     | W706287-S900                           |
| M6              | 23.3mm  | 2.05mm   | 6.9mm   | 8mm     | 13.6mm  | 24.10mm | — | 16   | WC-300-F     | W708125-S424                           |
| M6              | 25.85mm | 2.06mm   | —       | 8mm     | 8mm     | 19.4mm  | — | 16   | WC-300-G     | N808779-S414                           |
| M8              | 28mm    | 3.81mm   | 9.4mm   | 13mm    | 14.26mm | 23.6mm  | — | 16   | WC-300-D     | N808102-S309                           |
| M8              | 28mm    | 3.81mm   | 9.4mm   | 13mm    | 14.26mm | 23.6mm  | — | 16   | WC-300-C     | N808102-S437                           |
| M6mm            | 30mm    | 1.80mm   | 6.81mm  | 10.00mm | 10.89mm | 22.0mm  | — | 17   | WC-301-D     | W705641-S439                           |

% Includes Plastic Patch

\$ = Adhesive

(continued)

# Standard and Utility Parts Catalog

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## PH-168(B) BOLT or SCREW and WASHER — HEXAGON OR PAN HEAD — SPECIAL (Cont'd)

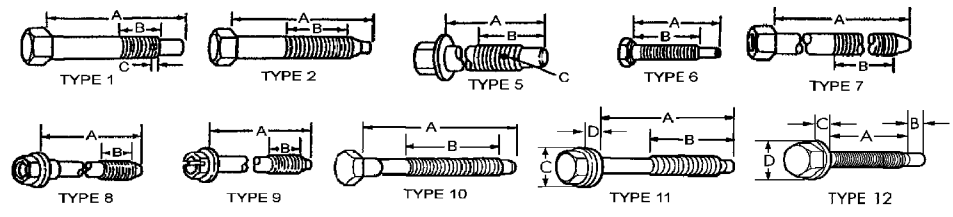
| Metric (cont'd) |         |           |          |         |         |         |         |      |              |   |
|-----------------|---------|-----------|----------|---------|---------|---------|---------|------|--------------|---|
| NOMINAL SIZE    | A       | B         | C        | D       | E       | F       | G       | TYPE | LOCATOR CODE | PART NUMBER                               |
| 6.3mm           | 22.7mm  | 2.0mm     | 4.24mm   | 10.00mm | 10.89mm | 19.5mm  | —       | 17   | WC-301-C     | W710344-S424<br>Flat washer               |
| M6.3            | 30.5mm  | 1.82mm    | 5.0mm    | 8.71mm  | 8mm     | 19mm    | —       | 17   | WC-301-A     | N808956-S301                              |
| 6.3mm           | 27.25mm | 4.45mm    | 4.15mm   | 5.6mm   | 12.50mm | 17.5mm  | —       | 18   | AB-020-A     | W707851-S900                              |
| M4.8            | 19.05mm | 4.95mm    | 3.38mm   | 7.92mm  | 8.64mm  | 10.51mm | —       | 19   | AB-117-ZJ    | W701696-S301                              |
| M4.8            | 19.05mm | 4.95mm    | 3.38mm   | 7.92mm  | 8.64mm  | 10.51mm | —       | 19   | AB-117-ZJ    | W701696-S421                              |
| M4.8            | 19.05mm | 4.95mm    | 3.38mm   | 7.92mm  | 8.64mm  | 10.51mm | —       | 19   | AB-117-ZJ    | W701696-S437                              |
| M6              | 20mm    | 1.8mm     | 4.24mm   | —       | 10.00mm | 10.95mm | 16.0mm  | 19   | AB-117-ZK    | W709735-S438                              |
| M6              | 32.3mm  | 1.60mm    | 6.09mm   | 7.89mm  | 8.66mm  | 14.5mm  | 19.74mm | 19   | AB-117-ZC    | W707486-S424                              |
| M6              | 35mm    | 1.6mm     | 6.9mm    | 8mm     | —       | 13.6mm  | 20mm    | 19   | AB-117-ZD    | W707532-S421                              |
| M6              | 40.0mm  | 1.6mm     | 4.24mm   | 10.00mm | —       | 10.95mm | 14.00mm | 19   | AB-117-ZE    | W710361-S900                              |
| M8              | 23.0mm  | 2.5mm     | 8.3mm    | 10.00mm | 10.93mm | 17.0mm  | 23.0mm  | 19   | AB-117-ZF    | W701875-S424                              |
| M8              | 23.0mm  | 2.5mm     | 8.3mm    | 10.00mm | 10.93mm | 17.0mm  | 23.0mm  | 19   | AB-117-ZF    | W701875-S439                              |
| M8              | 40.0mm  | 2.7mm     | 5.45mm   | —       | 13.00mm | 14.26mm | 24.0mm  | 19   | AB-117-ZH    | W710343-S438                              |
| M10             | 35mm    | 2.8mm     | 12.84mm  | —       | 15.0mm  | 17.32mm | 25.8mm  | 19   | AB-117-ZL    | W707122-S424                              |
| M6              | 24.35mm | 3.2mm     | 1.70mm   | 23.0mm  | 17mm    | 10mm    | —       | 20   | AB-321-WA    | W701695-S309                              |
| M6              | 24.75mm | 3.25mm    | 1.8mm    | 19.43mm | 8mm     | 13.6mm  | —       | 20   | AB-321-WD    | W701775-S309                              |
| M6              | 24.75mm | 3.25mm    | 1.8mm    | 19.43mm | 8mm     | 13.6mm  | —       | 20   | AB-321-WD    | W701775-S437M                             |
| M8              | 64mm    | —         | 2.21mm   | 16.26mm | 10mm    | 17mm    | —       | 20   | AB-321-WE    | W705738-S309                              |
| M6              | 30mm    | 21mm      | 8.25mm   | 2.80mm  | 5.6mm   | 12.50mm | 24mm    | 21   | AB-322-Z     | W708487-S301<br>Conical toothed<br>washer |
| M6              | 19.2mm  | 4.5mm     | 1.8mm    | 5.00mm  | 8.00mm  | 32.00mm | —       | 22   | AB-310-AA    | W708394-S424<br>Conical spring<br>washer  |
| M6              | 19.2mm  | 4.5mm     | 1.88mm   | 5.00mm  | 8.00mm  | 32.00mm | —       | 22   | AB-310-AA    | W709194-S424<br>Conical spring<br>washer  |
| M6              | 31.9mm  | 4.75mm    | 2.62mm   | 5.0mm   | 8.0mm   | 38.0mm  | —       | 22   | AB-310-AB    | N808841-S301<br>Conical toothed<br>washer |
| M6              | 27.50mm | 4.2mm     | 1.2mm    | 6.9mm   | 8mm     | 13.6mm  | 23.00mm | 23   | WC-300       | W701389-S439                              |
| M8              | 20.42mm | 5.05mm    | 3.05mm   | 9.7mm   | 13mm    | 20.8mm  | 42mm    | 23   | WC-300-A     | W708997-S426                              |
| M10             | 25.42mm | —         | %6.0mm   | 11.9mm  | 15.00mm | 24.7mm  | 28.00mm | 24   | WC-320-G     | W708495-S309                              |
| M10             | 25.42mm | —         | %6.0mm   | 11.9mm  | 15.00mm | 24.7mm  | 28.00mm | 24   | WC-320-G     | W708495-S437                              |
| M10             | 55mm    | 25.0mm    | \$13mm   | 9.7mm   | 13.00mm | 14.08mm | 25.4mm  | 24   | WC-320-K     | W710183-S439                              |
| M12             | 64.0mm  | —         | \$12.0mm | 11.9mm  | 16.32mm | 15.00mm | 24.7mm  | 24   | WC-320-B     | W709273-S426<br>Flat washer               |
| M12             | 135mm   | —         | %48.0mm  | 9.0mm   | 15mm    | 24.7mm  | 38mm    | 24   | WC-320-D     | ★ W710077-S439                            |
| M12             | 151.0mm | 82.8mm    | \$22mm   | 7.79mm  | 19.86mm | 18.00mm | 40.0mm  | 24   | WC-320-A     | W708866-S426                              |
| M14             | 120.7mm | 90.9mm    | %22.0mm  | 18.1mm  | 18mm    | 28.6mm  | 38mm    | 24   | WC-320-C     | W710072-S439                              |
| M14             | 155.8mm | 60.8mm    | 20.0mm   | 10.0mm  | 21mm    | 30.5mm  | 38mm    | 24   | WC-320-E     | ★ W710324-S439                            |
| M10             | 50mm    | 45mm      | 9.7mm    | 2.0mm   | 20.3mm  | 13mm    | —       | 26   | WC-330-A     | W706912-S301<br>Flat washer               |
| M10             | 60mm    | 55mm      | 9.7mm    | 2.0mm   | 20.3mm  | 13mm    | —       | 26   | WC-330-D     | W707111-S438                              |
| M12             | 47.0mm  | 10.0mm    | 25mm     | 2mm     | 11.9mm  | 15mm    | 24.7mm  | 27   | WC-340-B     | W709266-S426                              |
| M4.2            | 17.7mm  | 2.0mm     | 2.79mm   | 7.00mm  | 7.55mm  | 13.0mm  | —       | 28   | WC-342-A     | W709654-S306                              |
| M4.2            | 17.7mm  | 2.0mm     | 2.79mm   | 7.00mm  | 7.55mm  | 13.0mm  | —       | 28   | WC-342-A     | W709654-S424                              |
| M4.2            | 19.05mm | 9.53mm    | 3.38mm   | 7.92mm  | 8.64mm  | 10.51mm | —       | 28   | WC-342-R     | W704759-S301                              |
| M7              | 42.0mm  | 2.35mm    | 6.83mm   | 10.00mm | 10.89mm | 24.00mm | —       | 28   | WC-342-N     | N811839-S436                              |
| M8              | 40.0mm  | 2.62mm    | 9.7mm    | 13.0mm  | 14.17mm | 22.60mm | —       | 28   | WC-342-B     | W707665-S426<br>Includes Ring             |
| M10             | 60.0mm  | —         | 30.0mm   | 6.63mm  | 3.0mm   | 15.0mm  | 25.8mm  | 28   | WC-342-M     | W710055-S424                              |
| M5              | 13.0mm  | 2.68mm    | 3.74mm   | 7.00mm  | 7.59mm  | 14.5mm  | —       | 29   | WC-343-A     | W704655-S421                              |
| M12             | 75.5mm  | 69.5mm    | 27.0mm   | 11.90mm | 5.30mm  | 15.0mm  | 32.0mm  | 30   | WC-344-A     | W709634-S309                              |
| M12             | 110mm   | 105.6mm   | —        | 12.1mm  | 5.0mm   | 24.7mm  | 34.0mm  | 30   | WC-344-C     | W710173-S439                              |
| M12             | 140.5mm | \$122.0mm | 56.0mm   | 7.0mmmm | 5.0mm   | 23.2mm  | 40.0mm  | 30   | WC-344-D     | W710831-S439                              |
| M4              | 18.35mm | 2.25mm    | 9.2mm    | 8.9mm   | 2.9mm   | —       | —       | 31   | WC-343-A     | W705741-S424                              |
| M10             | 35.73mm | 14.24mm   | 13.8mm   | 4.6mm   | 19.99mm | 39.0mm  | —       | 32   | WC-350       | W708118-S900<br>Conical washer            |
| 5.0             | 18.80mm | 3.6mm     | 48deg    | 2.80mm  | 5.96mm  | 5.50mm  | 13mm    | 33   | WC-346       | W706473-S403                              |

% Includes Plastic Patch

\$ = Adhesive

# Standard and Utility Parts Catalog

## PH-33 BOLT or SCREW — HEXAGON HEAD — PILOT END



PH-33  
12/01/2003

| National Coarse Thread |        |          |          |   |      |              |       |             |
|------------------------|--------|----------|----------|---|------|--------------|-------|-------------|
| DIAMETER               | THREAD | A        | B        | C | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
| 1/4"                   | 20     | 55/64"   | 55/64"   |   | 5    | BB-301-J     | 5.2   | 390699-S2   |
| 5/16"                  | 20     | 1-1/8"   | 1-1/8"   |   | 5    | BB-301-H     | 5.2   | 390700-S2   |
| 5/16"                  | 18     | 5-29/32" | 1-1/2"   |   | 5    | BB-301-D     | 5.1   | 390397-S8   |
| 1/2"                   | 13     | 5-7/32"  | 1-39/64" |   | 5    | BB-301-K     | 5     | 385734-S2   |
| 1/2"                   | 13     | 1"       | 35/64"   |   | 5    | BB-301-M     | 5     | 56781-S56   |
| 5/16"                  | 18     | 6-55/64" | 1-1/2"   | — | 6    | BB-412-F     | 5     | 391448-S8X  |

| Metric       |         |         |   |      |              |               |              |
|--------------|---------|---------|---|------|--------------|---------------|--------------|
| NOMINAL SIZE | A       | B       | C | TYPE | LOCATOR CODE | P/C           | PART NUMBER  |
| M8           | 43.5mm  | 21mm    |   | 1    | AB-204-B     | 9.8           | N804113-S8   |
| M6           | 16mm    | 10mm    |   | 2    | AB-51-C      | 9.8           | N808281-S309 |
| M8           | 24mm    | 20mm    | — | 2    | AB-208-AM    | 9.8           | N806130-S426 |
| M10          | 105mm   | 34mm    | — | 2    | AB-205-Z     | 8.8           | W704118-S309 |
| M5           | 10mm    | 3.9mm   |   | 5    | AB-208-XX    | 10.9          | W506401-S301 |
| M5           | 10mm    | 3.9mm   |   | 5    | AB-208-XX    | 10.9          | W506401-S424 |
| M5           | 10mm    | 3.9mm   | — | 5    | AB-208-XX    | 10.9          | W506401-S439 |
| M5           | 14mm    | —       | — | 5    | AB-208-AJ    | 8.8           | W500203-S437 |
| M5           | 14mm    | —       | — | 5    | AB-208-JX    | 8.8           | W500203-S309 |
| M5           | 14mm    | —       | — | 5    | AB-208-JW    | 8.8           | W500203-S421 |
| M5           | 20mm    | 20mm    | — | 5    | AB-208-JA    | 8.8           | W505415-S438 |
| M5           | 27.5mm  | 27.5mm  | — | 5    | AB-208-J     | 8.8           | W707156-S437 |
| M6           | 2.62mm  | —       |   | 5    | AB-208-AP    | 9.8           | N802850-S310 |
| M6           | 16mm    | 16mm    |   | 5    | AB-208-Y     | 8.8           | E801274-S201 |
| M6           | 22.25mm | 22mm    | — | 5    | AB-208-AV    | —             | W700005-S303 |
| M6           | 22.25mm | 22mm    | — | 5    | AB-208-AV    | —             | W700005-S437 |
| M6           | 22.5mm  | 22.5mm  |   | 5    | AB-208-AK    | 9.8           | N804958-S8   |
| M6           | 22.5mm  | —       | — | 5    | AB-208-AZ    | 8.8           | W500214-S300 |
| M6           | 22.5mm  | —       | — | 5    | AB-208-AZ    | 8.8           | W500214-S301 |
| M6           | 22.5mm  | —       | — | 5    | AB-208-AZ    | 8.8           | W500214-S309 |
| M6           | 22.5mm  | —       | — | 5    | AB-208-AZ    | 8.8           | W500214-S421 |
| M6           | 22.5mm  | —       | — | 5    | AB-208-AZ    | 8.8           | W500214-S435 |
| M6           | 22.5mm  | —       | — | 5    | AB-208-AZ    | 8.8           | W500214-S437 |
| M6           | 22.5mm  | —       | — | 5    | AB-208-AZ    | 8.8           | W500214-S439 |
| M6           | 25mm    | 25mm    |   | 5    | AB-208-R     | 9.8           | N804660-S2   |
| M6           | 42.5mm  | 40mm    | — | 5    | AB-208-AX    | 9.8           | N807071-S309 |
| M6           | 42.5mm  | 40mm    | — | 5    | AB-208-AX    | 9.8           | N807071-S437 |
| M6           | 56mm    | 23mm    | — | 5    | AB-208-HM    | 9.8,9.81,9.82 | N808759-S309 |
| M8           | 32.75mm | 30mm    | — | 5    | AB-208-HL    | 8.8           | W700839-S309 |
| M8           | 35mm    | 31.4mm  |   | 5    | AB-208-AR    | 8.8           | W701232-S309 |
| M8           | 35mm    | 31.4mm  |   | 5    | AB-208-AS    | 8.8           | W701232-S431 |
| M8           | 35mm    | 31.4mm  | — | 5    | AB-208-AS    | 8.8           | W701232-S    |
| M8           | 35mm    | 31.4mm  | — | 5    | AB-208-AS    | 8.8           | W701232-S437 |
| M6           | 30mm    | 30mm    |   | 5    | AB-208-V     | 10.9          | N804581-S    |
| M6           | 40mm    | 38.75mm | — | 5    | AB-208-XA    | 9.8           | N807790-S36B |
| M6           | 28mm    | 27mm    |   | 5    | AB-208-N     | 9.8           | N804576-S8   |
| M6           | 28mm    | 27mm    | — | 5    | AB-208-N     | 9.8           | N804576-S437 |
| M8           | 17mm    | 14mm    |   | 5    | AB-208-P     | 9.8           | N605903-S2   |
| M8           | 28mm    | 28mm    |   | 5    | AB-208-H     | 9.8           | N804058-S2   |
| M10          | 22mm    | 22mm    |   | 5    | AB-208-E     | 9.8           | N605918-S100 |

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BOLT or SCREW — HEXAGON HEAD — PILOT END (Cont'd)

| Metric (Cont'd) |         |         |   |      |              |               |                |
|-----------------|---------|---------|---|------|--------------|---------------|----------------|
| NOMINAL SIZE    | A       | B       | C | TYPE | LOCATOR CODE | P/C           | PART NUMBER    |
| M10             | 22mm    | 22mm    | — | 5    | AB-208-E     | 9.8           | N605918-S103   |
| M10             | 22mm    | 22mm    | — | 5    | AB-208-E     | 9.8           | N605918-S426   |
| M10             | 22mm    | 22mm    | — | 5    | AB-208-E     | 9.8           | N605918-S427   |
| M10             | 30mm    | 30mm    | — | 5    | AB-208-W     | 9.8           | N605920-S2     |
| M10             | 33mm    | 30mm    | — | 5    | AB-208-X     | 9.8,9.81,9.82 | N807239-S8     |
| M10             | 33mm    | 30mm    | — | 5    | AB-208-X     | 9.8,9.81,9.82 | N807239-S437   |
| M10             | 35mm    | 25mm    | — | 5    | AB-210-H     | —             | N807360-S2     |
| M10             | 45mm    | 45mm    | — | 5    | AB-208-AB    | 9.8           | N605923-S2     |
| M10             | 50mm    | —       | — | 5    | AB-208-YA    | 9.8           | N808296-S2     |
| M10             | 53mm    | 45mm    | — | 5    | AB-208-K     | 9.8           | N804568-S190   |
| M12             | 25mm    | —       | — | 5    | AB-208-RA    | 10.9          | W500641-S309   |
| M12             | 34mm    | 34mm    | — | 5    | AB-208-S     | 10.9          | N804278-S2     |
| M14             | 105mm   | 98.5mm  | — | 5    | AB-208-HK    | —             | N807087-S100   |
| M10             | 23.5mm  | 20mm    | — | 6    | AB-207-F     | 9.8           | N805086-S100   |
| M8              | 123mm   | 41mm    | — | 6    | AB-207-B     | 9.8           | N806020-S2     |
| M8              | 50mm    | —       | — | 6    | AB-207-C     | 9.8           | N808294-S2     |
| M8              | 66.7mm  | 66.23mm | — | 6    | AB-207-G     | —             | N811573-S431   |
| M10             | 23.5mm  | 20mm    | — | 6    | AB-207-F     | 9.8           | N805086-S101   |
| M12             | 55mm    | 49mm    | — | 6    | AB-209-M     | —             | N805961-S151   |
| M6              | 25mm    | —       | — | 8    | AB-209-V     | 9.8           | N808199-S2     |
| M6              | 27.5mm  | 25mm    | — | 8    | AB-214-B     | 9.8           | N808199-S2     |
| M5              | 40mm    | 40mm    | — | 8    | AB-210-BA    | 8.8           | W701547-S309   |
| M6              | 21.28mm | —       | — | 8    | AB-209-V     | 9.8,9.81,9.82 | N807309-S2     |
| M6              | 47mm    | —       | — | 8    | AB-210-F     | 8.8           | W701520-S421   |
| M6              | 47mm    | —       | — | 8    | AB-210-F     | 8.8           | W701520-S309   |
| M6              | 47mm    | —       | — | 8    | AB-210-F     | 8.8           | W701520-S437   |
| M10             | 12.6mm  | 36mm    | — | 8    | AB-210-AT    | 9.8           | N807241-S36B   |
| M10             | 12.6mm  | 36mm    | — | 8    | AB-210-AT    | 9.8           | N807241-S437   |
| M8              | 28.0mm  | 28.0mm  | — | 8    | AB-213-L     | —             | ★ N806702-S55  |
| M8              | 30mm    | 18mm    | — | 8    | AB-213-E     | 8.8           | W500300-S      |
| M8              | 53mm    | —       | — | 8    | AB-209-J     | 9.8,9.81,9.82 | N808517-S100   |
| M8              | 53mm    | —       | — | 8    | AB-209-J     | 9.8,9.81,9.82 | N808517-S101   |
| M8              | 44mm    | 26.5mm  | — | 8    | AB-209-Y     | 8.8           | W705430-S309   |
| M8              | 68mm    | 40mm    | — | 8    | AB-209-H     | 9.8,9.81,9.82 | N806719-S8     |
| M8              | 65mm    | 55mm    | — | 8    | AB-209-P     | 9.8           | N807173-S2     |
| M8              | 67.5mm  | 31.5mm  | — | 8    | AB-209-X     | 9.8,9.81,9.82 | N807462-S309   |
| M8              | 48mm    | 18mm    | — | 8    | AB-213-G     | —             | N605909-S36    |
| M8              | 48mm    | 18mm    | — | 8    | AB-213-G     | —             | N605909-S437   |
| M8              | 100.0mm | —       | — | 8    | AB-213-K     | 9.8,9.81,9.82 | N606551-S426   |
| M8              | 112mm   | 40.6mm  | — | 8    | AB-210-BK    | 9.8,9.81,9.82 | N806699-S36    |
| M8              | 112mm   | 40.6mm  | — | 8    | AB-210-BK    | 9.8,9.81,9.82 | N806699-S437   |
| M8              | 113.3mm | 27mm    | — | 8    | AB-210-BE    | 8.8           | W701626-S309   |
| M8              | 114.5mm | 40.0mm  | — | 8    | AB-210-BF    | 9.8,9.81,9.82 | N808217-S309   |
| M8              | 114.5mm | 40.0mm  | — | 8    | AB-210-BG    | 9.8,9.81,9.82 | N808217-S437   |
| M10             | 28.5mm  | 18.0mm  | — | 8    | AB-210-BJ    | —             | N605919-S426   |
| M10             | 60mm    | 28mm    | — | 8    | AB-210-BL    | 8.8           | W705429-S309   |
| M10             | 75mm    | 26mm    | — | 8    | AB-213-M     | 8.8           | ★ W500327-S309 |
| M10             | 80mm    | 26mm    | — | 8    | AB-213-N     | 8.8           | W500328-S437   |
| M10             | 80mm    | 31mm    | — | 8    | AB-210       | 8.8           | W701521-S309   |
| M10             | 93.4mm  | —       | — | 8    | AB-210-HD    | 9.8,9.81,9.82 | N807938-S437   |
| M10             | 100mm   | 26mm    | — | 8    | AB-209-EA    | 10.9          | W506532-S426   |
| M10             | 103.3mm | 30mm    | — | 8    | AB-209-G     | 8.8           | W701508-S309   |
| M10             | 103.5mm | —       | — | 8    | AB-209-W     | 9.8,9.81,9.82 | N805830-S309   |
| M10             | 122.5mm | 40mm    | — | 8    | AB-210-AD    | 8.8           | W705428-S309   |
| M10             | 125.7mm | 26mm    | — | 8    | AB-211-Z     | 8.8           | W704696-S309   |
| M10             | 180.0mm | —       | — | 8    | AB-210-BG    | 9.8,9.81,9.82 | N808113-S301   |
| M12             | 81.5mm  | 26mm    | — | 8    | AB-210-M     | 10.9          | N800932-S100   |
| M12             | 103mm   | 34mm    | — | 8    | AB-210-N     | 10.9          | N802293-S426   |

(continued)

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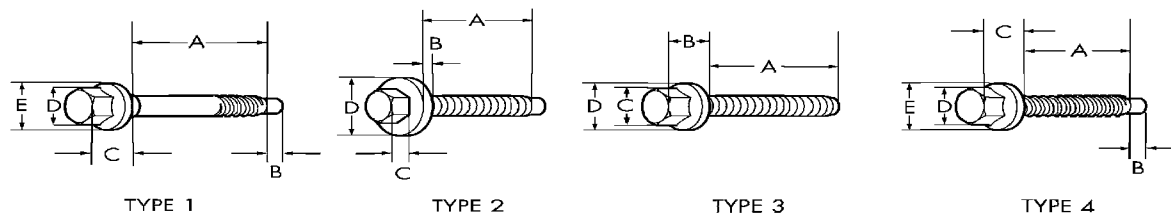
BOLT or SCREW — HEXAGON HEAD — PILOT END (Cont'd)

Metric (Cont'd)

| NOMINAL SIZE | A       | B           | C | TYPE | LOCATOR CODE | P/C  | PART NUMBER  |
|--------------|---------|-------------|---|------|--------------|------|--------------|
| M12          | 104mm   | 47mm        |   | 8    | AB-210-R     | 10.9 | N800933-S100 |
| M12          | 112.0mm | 1.75mm      |   | 8    | AB-210-CB    | 10.9 | N804442-S426 |
| M12          | 140mm   | .06mm       |   | 8    | AB-210-T     | 10.9 | N803660-S2   |
| M14          | 37mm    | 5-7 Threads |   | 8    | AB-211-D     |      | N811816-S100 |
| M14          | 37mm    | 5-7 Threads | — | 8    | AB-211-D     | —    | N811816-S439 |
| M16          | 104mm   | 60.5mm      |   | 8    | AB-211-H     | 10.9 | N806946-S100 |
| M10          | 65mm    | 26mm        | — | 10   | AB-210-V     | 8.8  | W500525-S309 |
| M12          | 45mm    | 30mm        | — | 10   | AB-210-ZA    | 10.9 | W506540-S426 |
| M12          | 83mm    | 40mm        |   | 10   | AB-210-Z     | 10   | W704887-S426 |
| M12          | 83mm    | 40mm        | — | 10   | AB-210-Z     | 10   | W704887-S439 |
| M12          | 109mm   | 49.5mm      |   | 10   | AB-210-Y     | 10.9 | N811185-S428 |

| NOMINAL SIZE | A      | B      | C       | D       | TYPE | LOCATOR CODE | P/C | PART NUMBER   |
|--------------|--------|--------|---------|---------|------|--------------|-----|---------------|
| M6           | 20.0mm | 20.0mm | 13.08mm | 1.8mm   | 11   | AB-212-M     | 8.8 | W701504-S427  |
| M6           | 20.0mm | 20.0mm | 13.08mm | 1.8mm   | 11   | AB-212-M     | 8.8 | W701504-S437  |
| M6           | 30mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-K     | 8.8 | W500300-S     |
| M6           | 30mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-K     | 8.8 | W500300-S301  |
| M6           | 30mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-K     | 8.8 | W500300-S439  |
| M6           | 30mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-K     | 8.8 | W500300-S1303 |
| M6           | 40mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-C     | 8.8 | W500302-S301  |
| M6           | 40mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-D     | 8.8 | W500302-S303  |
| M6           | 40mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-E     | 8.8 | W500302-S437  |
| M6           | 50mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-L     | 8.8 | W500304-S300  |
| M6           | 55mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-G     | 8.8 | W500305-S300  |
| M6           | 55mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-H     | 8.8 | W500305-S309  |
| M8           | 35mm   | 22mm   | 8.5mm   | 17mm    | 11   | WA-101-C     | 8.8 | W500310-S437  |
| M8           | 40mm   | 22mm   | 8.5mm   | 17mm    | 11   | WA-111-M     | 8.8 | W500310-S437  |
| M8           | 45mm   | 22mm   | 8.5mm   | 17mm    | 11   | WA-111-N     | 8.8 | W500311-S309  |
| M8           | 45mm   | 22mm   | 8.5mm   | 17mm    | 11   | WA-111-N     | 8.8 | W500312-S309  |
| M8           | 50mm   | 22mm   | 8.5mm   | 17mm    | 11   | WA-111-P     | 8.8 | W500312-S1427 |
| M8           | 55mm   | 22mm   | 8.5mm   | 17mm    | 11   | WA-111-A     | 8.8 | W500313-S309  |
| M8           | 55mm   | 22mm   | 8.5mm   | 17mm    | 11   | WA-111-A     | 8.8 | W500314-S309  |
| M6           | 30mm   | 18mm   | 6.9mm   | 13.6mm  | 11   | WA-111-K     | 8.8 | W500314-S437  |
| M8           | 55mm   | 30mm   | 16.26mm | 2.21mm  | 11   | AB-212-P     | 8.8 | W704816-S309  |
| M8           | 84.3mm | 40mm   | 20.8mm  | 2.21mm  | 11   | AB-212-R     | 8.8 | W709788-S437  |
| M8           | 101mm  | 30mm   | 16.26mm | 2.21mm  | 11   | AB-212-N     | 8.8 | W701532-S309M |
| M8           | 31.3mm | 7.50mm | 2.62mm  | 13.00mm | 12   | AB-212-RA    | 10  | W707108-S426  |

## PH-33(A) BOLT or SCREW — HEXAGON HEAD — PILOT END

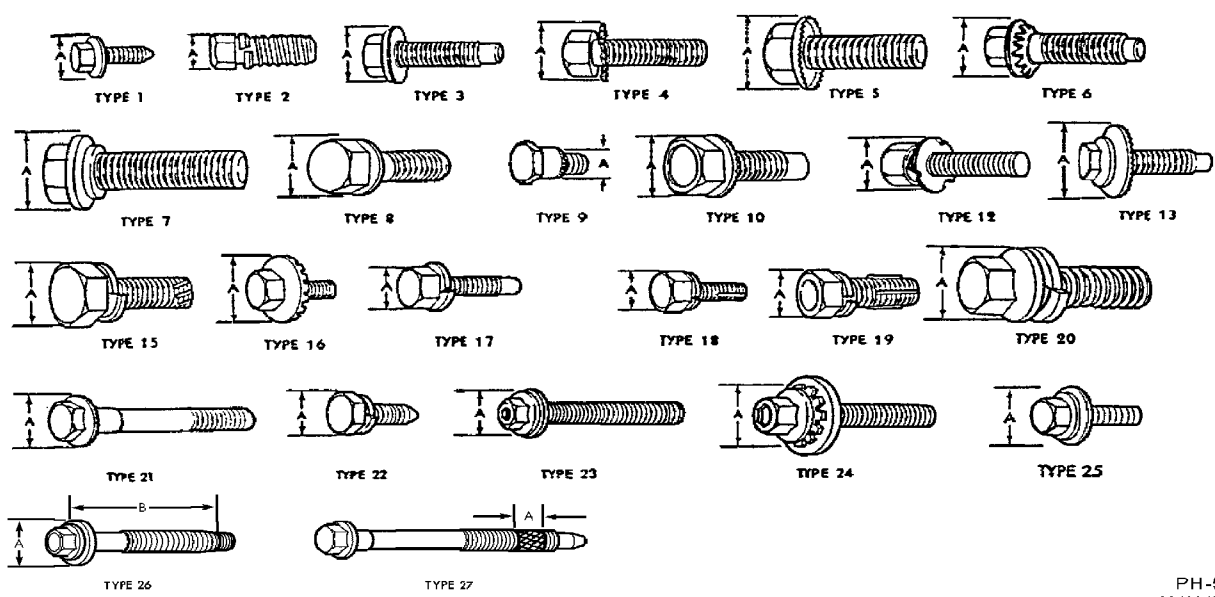


PH-33(A)  
12/19/2002

| NOMINAL SIZE | A       | B      | C      | D       | E      | TYPE | P/C  | LOCATOR CODE | PART NUMBER  |
|--------------|---------|--------|--------|---------|--------|------|------|--------------|--------------|
| M6           | 24.4mm  | 2.25mm | 5.1mm  | 20.25mm | —      | 1    | 8.8  | AB-208-AZ    | W705800-S439 |
| M8           | 16mm    | —      | 8.5mm  | 10mm    | 17mm   | 1    | 8.8  | AB-210-SC    | W500222-S309 |
| M8           | 16mm    | —      | 8.5mm  | 10mm    | 17mm   | 1    | 8.8  | AB-210-SC    | W500222-S424 |
| M8           | 16mm    | —      | 8.5mm  | 10mm    | 17mm   | 1    | 8.8  | AB-210-SC    | W500222-S439 |
| M10          | 45mm    | —      | 9.7mm  | 13mm    | 20.8mm | 1    | 8.8  | AB-210-SB    | W500321-S301 |
| M10          | 45mm    | —      | 9.7mm  | 13mm    | 20.8mm | 1    | 8.8  | AB-210-SB    | W500321-S309 |
| M10          | 45mm    | —      | 9.7mm  | 13mm    | 20.8mm | 1    | 8.8  | AB-210-SB    | W500321-S437 |
| M12          | 121.7mm | 6.3mm  | 14.0mm | 18.00mm | 30.7mm | 1    | 10.9 | AB-210-SA    | W707244-S426 |
| M10          | 38mm    | 1.8mm  | 7.3mm  | 22.7mm  | —      | 2    | —    | AB-208-RC    | N807769-S437 |
| M12          | 25mm    | —      | —      | 24.7mm  | —      | 2    | 8.8  | AB-208-RB    | W708410-S309 |
| M6           | 35mm    | —      | 6.9mm  | 13.6mm  | —      | 3    | 8.8  | WA-111-AA    | W500301-S300 |
| M6           | 35mm    | —      | 6.9mm  | 13.6mm  | —      | 3    | 8.8  | WA-111-AA    | W500301-S303 |
| M6           | 35mm    | —      | 6.9mm  | 13.6mm  | —      | 3    | 8.8  | WA-111-AA    | W500301-S437 |
| M8           | 27.00mm | 30mm   | 8.5mm  | 10.00mm | 17.5mm | 4    | 10.9 | WA-800       | W709736-S439 |

# Standard and Utility Parts Catalog

## PH-5 BOLT or SCREW — HEXAGON HEAD with LOCKWASHER



PH-5  
12/22/2000

| National Coarse Thread |        |         |        |      |              |           |             |
|------------------------|--------|---------|--------|------|--------------|-----------|-------------|
| DIAMETER               | THREAD | LENGTH  | A      | TYPE | LOCATOR CODE | GRADE     | PART NUMBER |
| 5/16"                  | 18     | 1-1/8"  | 1/2"   | 2    | BB-562-F     | 5.1       | 358720-S36  |
| 3/8"                   | 16     | 1-1/2"  | 11/16" | 2    | BB-557-E     | 2         | 388466-S36  |
| 7/16"                  | 14     | 1-5/8"  | 5/8"   | 2    | BB-567-CE    | 5         | 385739-S2   |
| 1/2"                   | 13     | 2"      | 2"     | 2    | BB-567-L     | 5         | 389733-S2   |
| 3/8"                   | 16     | 3/4"    | 7/8"   | 5    | BB-579       | 5         | 370608-S2   |
| 3/8"                   | 16     | 1"      | 7/8"   | 5    | BB-563-AH    | 5         | 381649-S2   |
| 1/2"                   | 13     | 1-1/4"  | —      | 8    | BB-568-FA    | 8         | 390066-SA   |
| 1/2"                   | 13     | 1-1/4"  | —      | 8    | BB-568-FA    | 8         | 390066-S439 |
| 3/8"                   | 16     | 1-5/16" | 3/4"   | 12   | BB-869-D     | 5         | 374047-S    |
| 3/8"                   | 16     | 1-7/8"  | 3/4"   | 12   | BB-869-F     | 5         | 381731-S    |
| 5/16"                  | 18     | 1"      | 1/2"   | 17   | BB-863-P     | 5.1       | 391378-S    |
| 1/2"                   | 24     | —       | 5/16"  | 17   | BB-863-M     | 5.5,1.5,2 | 391484-S437 |
| 5/16"                  | 18     | 4"      | —      | 21   | BB-872-C     | —         | 56134-S101  |
| 3/8"                   | 16     | 1-1/4"  | 7/8"   | 21   | BB-872-B     | 5         | 390785-S36  |

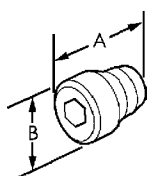
| National Fine Thread |    |        |        |   |          |   |           |
|----------------------|----|--------|--------|---|----------|---|-----------|
| 5/16"                | 24 | 2-3/4" | 17/32" | 2 | BB-570-V | 5 | 379206-S2 |
| 1/4"                 | 28 | 3/8"   | 3/8"   | 4 | BB-587-F | 5 | 388889-S■ |

| Metric Coarse Thread |        |        |      |              |               |              |
|----------------------|--------|--------|------|--------------|---------------|--------------|
| NOMINAL SIZE         | LENGTH | A      | TYPE | LOCATOR CODE | P/C           | PART NUMBER  |
| M6                   | 14mm   | 11mm   | 2    | AB-51-AA     | 8.8           | N602527-S2   |
| M6                   | 14mm   | 11mm   | 2    | AB-51-AA     | 8.8           | N602527-S427 |
| M6                   | 16mm   | 10mm   | 2    | AB-51-C      | 9.8           | N808281-S309 |
| M6                   | 16mm   | 10mm   | 2    | AB-51-B      | 9.8,9.81,9.82 | N808281-S437 |
| M6                   | 20mm   | 11.3mm | 2    | AB-53-A      | 8.8           | N602529-S2   |
| M8                   | 18mm   | 10mm   | 2    | AB-69-F      | 9.8           | ★N802096-S2  |
| M8                   | 18mm   | 10mm   | 2    | AB-69-F      | 9.8           | N802096-S437 |
| M8                   | 25mm   | 13mm   | 2    | AB-63-C      | 8.8           | E602550-S72M |
| M8                   | 25mm   | 13mm   | 2    | AB-62        | 8.8           | N602550-S2   |

**PH-5**
**BOLT or SCREW — HEXAGON HEAD with LOCKWASHER (Cont'd)**
**Metric Coarse Thread (Cont'd)**

| NOMINAL SIZE | LENGTH  | A       | TYPE | LOCATOR CODE | P/C           | PART NUMBER  |
|--------------|---------|---------|------|--------------|---------------|--------------|
| M4.2         | 20.5mm  | 13mm    | 3    | AB-52-AA     | 8.8           | N807122-S36B |
| M6           | 8mm     | 17mm    | 3    | AB-52-AZ     | 9             | W703643-S309 |
| M6           | 18.5mm  | 19.4mm  | 3    | AB-149-B     | 9.8           | N606675-S426 |
| M6           | 18.5mm  | 19.4mm  | 3    | AB-149-HA    | 9.8           | N606675-S435 |
| M6           | 20mm    | 17mm    | 3    | AB-149-JJ    | 9.8           | N806549-S2   |
| M6           | 18.5mm  | 19.4mm  | 3    | AB-149-HA    | 9.8           | N606675-S437 |
| M6           | 18.5mm  | 19.4mm  | 3    | AB-149-HB    | 9.8           | N606675-S100 |
| M10          | 33mm    | 20.8mm  | 3    | AB-52-AQ     | 9             | N811663-S309 |
| M12          | 44.5mm  | 24mm    | 3    | AB-52-AB     | 9             | N811403-S436 |
| M8           | 23.8mm  | 15.5mm  | 4    | AB-160-E     | 9.8           | N805232-S    |
| M8           | 18mm    | 17mm    | 5    | AB-149-EE    | 9.8           | ★N802990-S2  |
| M8           | 37mm    | 17.4mm  | 5    | AB-149-K     | 9.8           | N801647-S    |
| M14          | 59.00mm | 20.51mm | 5    | AB-119-JE    | 10.9          | W706504-S436 |
| M6           | 15.5mm  | 10mm    | 8    | AB-151-J     | 9.8           | W704569-S301 |
| M6           | 30mm    | 13mm    | 8    | AB-151-H     | 9.8           | N606678-S36  |
| M6           | 37.5mm  | 13mm    | 8    | AB-151-HH    | 9.8           | N606678-S39  |
| M9.5         | 51mm    | 14.2mm  | 8    | AB-148-D     |               | 391961-S300  |
| M8           | 21.5mm  | 17mm    | 10   | AB-37-ZZ     |               | W706437-S309 |
| M8           | 40mm    | 17.5mm  | 13   | AB-37-C      |               | N806765-S2   |
| M8           | 20mm    | 18mm    | 16   | AB-75-G      | 5*            | N800112-S2   |
| M8           | 23mm    | 10mm    | 17   | AB-58-G      | 9.8           | N606688-S2   |
| M10          | 25mm    | —       | 17   | AB-90-JE     | —             | N602570-S    |
| M8           | 80.0mm  | —       | 21   | AB-209-AA    | 9.8,9.81,9.82 | N606549-S56  |
| M10          | 24mm    | 37mm    | 21   | AB-58-LL     |               |              |
| M10          | 25.5mm  | —       | 21   | AB-204-AS    | —             | N808378-S36  |
| M14          | 105mm   | 28mm    | 21   | AB-58-LK     |               | N811315-S428 |
| M14          | 120.7mm | 7.4mm   | 21   | AB-58-L      | 10.9          | N811745-S426 |
| 42mm         | —       | 13mm    | 22   | AB-90-K      | —             | W700486-S424 |
| M8           | 65mm    | 17.5mm  | 23   | AB-91-E      | 9.8           | N805260-S    |
| M3.5         | 10mm    | 8mm     | 25   | AB-92-F      | 9.8,9.81,9.82 | N804747-S2   |
| M6           | 20.5mm  | 16mm    | 25   | AB-125-N     | 9.8           | N806366-S2   |

\* Grade

**PH-148**
**BOLT or SCREW and WASHER — HEXAGON HEAD**

**TYPE 1**
**PH-148**  
01/11/2002

| DIAMETER | THREAD | A       | B    | TYPE | LOCATOR CODE | GRADE    | PART NUMBER |
|----------|--------|---------|------|------|--------------|----------|-------------|
| 5/16"    | 24     | 7/8"    | 7/8" | 1    | BB-871-E     | 5        | 380288-S2   |
| 1/2"     | 13     | 1-1/4"  | 3/4" | 1    | BB-551-CT    | 8 or 8.2 | 390066-S301 |
| 1/4"     | 20     | 1-5/32" | —    | 2    | BB-552-A     | —        | 57032-S307  |

(continued)



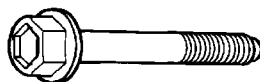
# Standard and Utility Parts Catalog

## PH-148 BOLT or SCREW and WASHER — HEXAGON HEAD (Cont'd)

| Metric       |        |         |         |      |              |      |               |
|--------------|--------|---------|---------|------|--------------|------|---------------|
| NOMINAL SIZE | THREAD | A       | B       | TYPE | LOCATOR CODE | P/C  | PART NUMBER   |
| M6           | 1.75mm | 17mm    |         | 1    | BB-545-Y     | 8    | W706286-S309  |
| M5           | —      | 15.3mm  | 17mm    | 2    | AB-151-LA    | 8.81 | W705342-S424  |
| M6           | 1mm    | 21.5mm  | 16.26mm | 2    | AB-151-MH    |      | N807309-S2    |
| M6           | 1mm    | 21.5mm  | 16.26mm | 2    | AB-151-MH    | —    | N807309-S437  |
| M6           | 1mm    | 22mm    | 19.4mm  | 2    | AB-151-ME    |      | N804394-S8M   |
| M6           | 1mm    | 22mm    | 19.4mm  | 2    | AB-151-ME    |      | N804394-S437  |
| M6           | 1mm    | 22mm    | 19.4mm  | 2    | AB-151-ME    |      | N804394-S438  |
| M6           | 1mm    | 22.5mm  | 19.4mm  | 2    | AB-151-AB    |      | N606676-S60   |
| M6           | 1mm    | 22.5mm  | 19.4mm  | 2    | AB-151-AG    |      | N807658-S307■ |
| M6           | 1mm    | 30mm    | 13.6mm  | 2    | AB-151-AC    |      | W701519-S421  |
| M6           | 1mm    | 32.5mm  | 16.25mm | 2    | AB-151-AF    | 9.8  | N807391-S302  |
| M6           | 1mm    | 33.25mm | 13.6mm  | 2    | AB-151-AE    |      | W701669-S309  |
| M6           | 1mm    | 33.25mm | 13.6mm  | 2    | AB-151-AE    | —    | W701669-S437  |
| M6           | 1mm    | 66mm    | 13.6mm  | 2    | AB-151-AD    |      | W701544-S309  |
| M6           | 6mm    | 47.3mm  | 14.48mm | 2    | AB-151-MJ    | —    | W701588-S309  |
| M8           | 1.25mm | 27.38mm | 22.61mm | 2    | AB-151-ML    |      | N806528-S58   |
| M8           | 1.25mm | 27.38mm | 22.61mm | 2    | AB-151-ML    |      | N806528-S301  |
| M8           | 1.25mm | 27.38mm | 22.61mm | 2    | AB-151-ML    |      | N806528-S439  |
| M8           | 1.25mm | 28mm    | 30mm    | 2    | AB-151-MN    | 9.8  | N805737-S435  |
| M8           | 1.25mm | 30mm    | 22.5mm  | 2    | AB-151-MK    | —    | N808906-S426  |
| M12          | 1.75mm | 111mm   | 18mm    | 2    | AB-151-N     |      | N807248-S100  |
| M4.2         | 1.41mm | 32mm    | 13.7mm  | 3    | AB-151-RF    |      | N805949-S424  |
| M6           | —      | 43.25mm | 13.6mm  | 3    | AB-151-TA    | 8.8  | W701242-S309  |
| M6           | —      | 43.25mm | 13.6mm  | 3    | AB-151-TA    | 8.8  | W701242-S437  |
| M10          |        | 102mm   | 20mm    | 3    | AB-151-RH    | 8.8  | W702484-S309  |
| M6           | —      | 20mm    | 19.1mm  | 4    | AB-151-LD    | 8.8  | W503924-S424  |
| M8           | —      | 30mm    | 34mm    | 4    | AB-151-LL    | 8    | N808826-S309  |
| M10          |        | 35mm    | 33.3mm  | 4    | AB-151-LC    | 8.8  | W704971-S426  |
| M12          | 1.75mm | 109mm   | 70mm    | 4    | AB-151-NA    |      | W708096-S426  |

■ Spring Washer

## PH-738 BOLT or SCREW — HEXAGON WASHER HEAD — UBS



TYPE 1

PH-738  
12/01/2003

| Metric   |        |        |      |              |       |              |
|----------|--------|--------|------|--------------|-------|--------------|
| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
| 13mm     | 6      | 123mm  | 1    | BB-545-P     | 9.8   | N807862-S309 |
| 13mm     | 6      | 123mm  | 1    | BB-545-PA    | 9.8   | N807862-S437 |
| 20.8mm   | 6      | 45mm   | 1    | BB-545-Q     | —     | N807274-S437 |

## PH-7 BOLT or SCREW — OVAL HEAD with LOCKWASHER — EXTERNAL TOOTH



TYPE 1

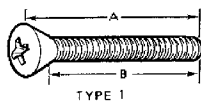


TYPE 3

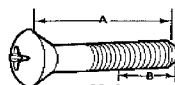
PH-7

| Metric Coarse Thread |        |      |              |             |
|----------------------|--------|------|--------------|-------------|
| NOMINAL              | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
| M6                   | 12mm   | 3    | AB-153-A     | N604465-S   |

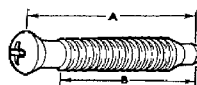
## PH-40 BOLT or SCREW — OVAL HEAD — CROSS RECESSED



TYPE 1



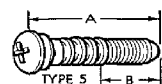
TYPE 2



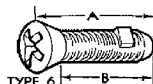
TYPE 3



TYPE 4



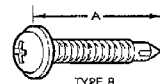
TYPE 5



TYPE 6



TYPE 7



TYPE 8

PH-40

### National Coarse Thread

| DIAMETER | THREAD | A    | B     | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|------|-------|------|--------------|--------------|
| No. 10   | 24     | 1/4" | 3/16" | 1    | BB-602-B     | ★382394-S100 |

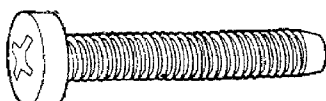
### Metric Coarse Thread

| NOMINAL SIZE | A       | B       | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|---------|---------|------|--------------|--------------|
| M4           | 16.0mm  | 12.68mm | 1    | AB-127-E     | N802237-S424 |
| M6           | 31.50mm | 21.50mm | 1    | AB-124-K     | N811860-S2   |
| M4           | 20mm    | —       | 2    | AB-124-F     | N604136-S2   |
| M6           | 24.5mm  | 22.3mm  | 3    | AB-124-M     | N800959-S49  |
| M4           | 25mm    | 23.5mm  | 7    | AB-139       | N801946-S9   |

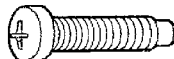
## PH-569 BOLT or SCREW — PAN HEAD



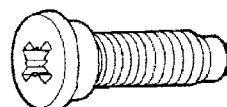
TYPE 1



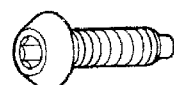
TYPE 2



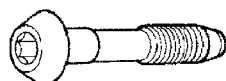
TYPE 3



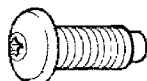
TYPE 4



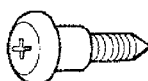
TYPE 5



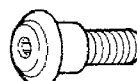
TYPE 6



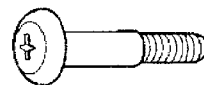
TYPE 7



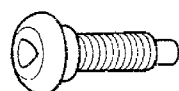
TYPE 8



TYPE 9



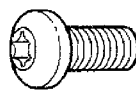
TYPE 10



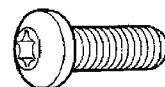
TYPE 11



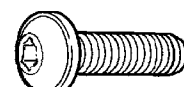
TYPE 12



TYPE 13



TYPE 14



TYPE 15

PH-569  
12/08/1999

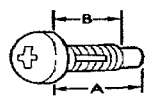
### National Coarse Thread

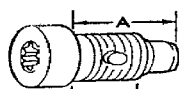
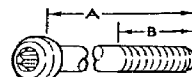
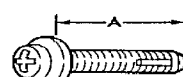
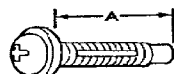
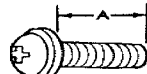
| DIAMETER | THREAD | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|---------|------|--------------|-------------|
| 1/4"     | 20     | 7/8"    | 2    | BB-637-G     | 385662-S45  |
| 7/16"    | 20     | 1-3/8"  | 4    | BB-637-LD    | 386273-S301 |
| 7/16"    | 20     | 1-3/4"  | 4    | BB-637-LC    | 384966-S100 |
| 5/16"    | 18     | 1-7/32" | 5    | BB-637-LB    | 390249-S2   |
| 1/2"     | 13     | 1-1/2"  | 5    | BB-637-PA    | 389209-S301 |

(continued)

| PH-569      BOLT or SCREW — PAN HEAD (Cont'd) |         |      |              |                |
|---|---------|------|--------------|----------------|
| NOMINAL SIZE                                  | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER    |
| M4.2  | 28mm    | 2    | AB-3-CA      | W708199-S424   |
| M6  | 20mm    | 2    | AB-3-H       | E603167-S72    |
| M8  | 14mm    | 2    | AB-3-E       | ★ E603185-S72  |
| M8  | 16mm    | 2    | AB-3-G       | ★ E603186-S72  |
| M8  | 25mm    | 2    | AB-3-T       | ★ E603188-S74  |
| M8  | 40mm    | 2    | AB-3-U       | ★ E802243-S72  |
| M8  | 68mm    | 2    | AB-3-X       | N807307-S100   |
| M10   | 16mm    | 2    | AB-3-W       | ★ N803333-S100 |
| M5  | 15mm    | 3    | AB-3-P       | ★ E804121-S100 |
| M6  | 10mm    | 3    | AB-3-K       | E802070-S72†   |
| M6  | 18.5mm  | 3    | AB-3-M       | ★ N800502-S36  |
| M10   | 32mm    | 4    | AB-3-J       | ★ N801878-S100 |
| M6  | 16mm    | 5    | AB-11-H      | ★ N807625-S424 |
| M6  | 17.8mm  | 5    | AB-11-E      | ★ N805858-S36  |
| M6  | 20.8mm  | 5    | AB-11-EC     | N806584-S36    |
| M6  | 25mm    | 5    | AB-11-F      | ★ E804385-S    |
| M6  | 14mm    | 5    | AB-11-N      | W700716-S309   |
| M6  | 37.5mm  | 5    | AB-11-FE     | ★ N805859-S36  |
| M6  | 40.5mm  | 5    | AB-11-FH     | N806583-S36    |
| M8  | 28mm    | 5    | AB-11-J      | E804387-S      |
| M8  | 68mm    | 5    | AB-11-M      | N807307-S100   |
| M10   | 23mm    | 5    | AB-11-L      | ★ N807628-S301 |
| M10   | 28.5mm  | 5    | AB-11-G      | ★ N801032-S2   |
| M10   | 30mm    | 5    | AB-11-GA     | ★ N806681      |
| M10   | 48mm    | 5    | AB-11-GB     | ★ N811250-S100 |
| M12   | 35mm    | 5    | AB-11-G      | ★ N807750-S424 |
| M6  | 40mm    | 6    | AB-11-A      | ★ N804353-S100 |
| M12   | 85mm    | 6    | AB-11-H      | ★ N801623-S100 |
| M14   | 115mm   | 6    | AB-11-R      | N805791-S2     |
| M4  | 10mm    | 7    | AB-3-JF      | W709287-S300   |
| M6  | 14mm    | 7    | AB-3-JB      | N807278-S36    |
| M6  | 25mm    | 7    | AB-3-ZZ      | W707036-S900   |
| M7.2  | 15.3mm  | 7    | AB-3-KA      | N807638-S100   |
| M8  | 20mm    | 7    | AB-3-JU      | N806910-S100   |
| M8  | 20mm    | 7    | AB-3-JU      | N806910-S437   |
| M8  | 27.25mm | 7    | AB-3-JD      | N806582-S36    |
| M10   | 30mm    | 7    | AB-3-JY      | W704091-S300   |
| M10   | 35mm    | 7    | AB-3-JW      | W702032-S309   |
| M10   | 50mm    | 7    | AB-3-JS      | ★ N806479-S2   |
| M12   | 45mm    | 7    | AB-3-JT      | N807751-S424   |
| M6  | 23mm    | 8    | AB-3-HB      | N800958-S58    |
| M5  | 5.27mm  | 13   | AC-3         | N808505-S36    |
| M6  | 9mm     | 13   | AB-3-N       | W709217-S437   |
| M6  | 10mm    | 13   | AB-3-L       | N811168-S60    |
| M6  | 10mm    | 13   | AC-2         | ★ N811168-S427 |
| M10   | 25mm    | 14   | AB-11-FF     | N807278-S36    |
| M10   | 31mm    | 14   | AB-11-WW     | W707385-S301   |
| M5  | 14mm    | 15   | AB-12-A      | W704425-S435   |
| M8  | 16mm    | 15   | AB-12-AA     | W505542-S303   |
| M8  | 25mm    | 15   | AB-12-C      | W505544-S309   |
| M8  | 25mm    | 15   | AB-12-C      | W505544-S426   |
| M8  | 25mm    | 15   | AB-12-BA     | W505594-S301   |
| M8  | 25mm    | 15   | AB-12-B      | W505594-S309   |
| M8  | 30mm    | 15   | AB-12-D      | W505545-S306   |
| M14   | 95mm    | 15   | AB-12-E      | W710038-S439   |

† Includes Nylon Patch

**PH-187**
**BOLT or SCREW — PAN HEAD — LOCKING**

**TYPE 2**

**TYPE 4**

**TYPE 5**

**TYPE 6**

**TYPE 7**

**TYPE 8**

**TYPE 9**

PH-187

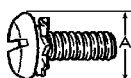
**National Coarse Thread**

| DIAMETER | THREAD | A       | B        | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|---------|----------|------|--------------|--------------|
| 1/2"     | 13     | 57/64"  | 11/16"   | 5    | BB-609-K     | ★ 383437-S36 |
| 1/2"     | 13     | 1-3/8"  | 1-1/8"   | 5    | BB-609-N     | ★ 383531-S32 |
| 1/2"     | 13     | 1-3/8"  | 1-1/8"   | 5    | BB-609-M     | 383531-S36   |
| 7/16"    | 14     | 6-3/16" | 1-31/32" | 6    | BB-638-G     | ★ 388750-S2  |

**Metric**

|        |       |       |        |   |           |                |
|--------|-------|-------|--------|---|-----------|----------------|
| No. 12 | 24    | 13mm  | 10mm   | 2 | AB-130    | ★ E402003-S80  |
| M5     | 0.8mm | 12mm  | 10mm   | 2 | AB-131-E  | ★ E802013-S72  |
| M5     |       | 40mm  | 38mm   | 2 | AB-131-D  | ★ E802165-S76  |
| M6     | 1     | 12mm  | 12mm   | 2 | AB-132-G  | ★ E804054-S74  |
| M6     |       | 12mm  | 10mm   | 2 | AB-132-F  | ★ E802625-S74  |
| M6     | 1     | 16mm  | 10mm   | 2 | AB-132-E  | ★ E802117-S76  |
| M6     | 1     | 6.7mm |        | 4 | AB-129-G  | ★ N803116-S150 |
| M5     | 0.8mm | 12mm  | 12mm   | 4 | AB-129-E  | ★ E802072-S72  |
| M8     |       | 8mm   | 8mm    | 4 | AB-129-D  | ★ E603121-S74  |
| M5     | 0.8mm | 10mm  | 10mm   | 5 | AB-130-E  | ★ N802353-S100 |
| M8     |       | 20mm  | 17.6mm | 6 | AB-129-F  | ★ N801489-S2   |
| M8     | 6mm   | 65mm  | 28mm   | 6 | AB-129-Z  | W705937-S900   |
| M14    | 0.6mm | 108mm | 31mm   | 6 | AB-163-A  | ★ N807234-S100 |
| M4     |       | 22mm  | 20.5mm | 7 | AB-134-E  | ★ N800885-S51† |
| M5     |       | 12mm  |        | 7 | AB-134-EA | ★ E802161-S74  |
| M5     |       | 14mm  | 14mm   | 8 | AB-162    | ★ E802156-S100 |
| M6     | —     | 16mm  | —      | 8 | AB-162-A  | W701278-S307   |
| M5     |       | 8mm   | 9.5mm  | 9 | AB-161-C  | ★ W700161-S303 |
| M5     |       | 23mm  | 20mm   | 9 | AB-163    | ★ E802182-S74  |
| M12    |       | 30mm  |        | 9 | AB-163-B  | ★ N805588-S58  |

† Includes Nylon Patch

**PH-9**
**BOLT or SCREW — PAN HEAD with LOCKWASHER**

**TYPE 1**

**TYPE 4**

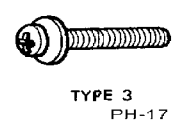
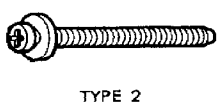
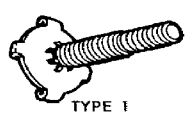
PH-9

**Metric Coarse Thread**

| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|--------|------|--------------|--------------|
| M5           | 10mm   | 4    | AU-4-AA      | W503560-S309 |

# Standard and Utility Parts Catalog

## PH-17 BOLT or SCREW and WASHER ASSY. — PAN HEAD

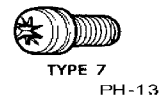
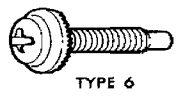
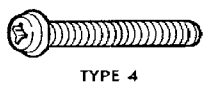
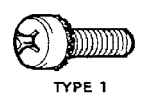


| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|--------|--------|------|--------------|---------------|
| No. 10   | 32     | 1-1/4" | 1    | BB-647-L     | ★ 373702-S7-8 |
| 1/4"     | 20     | 2-1/2" | 2    | BB-630-U     | ★ 388010-S2   |

| Metric |        |        |   |          |                |
|--------|--------|--------|---|----------|----------------|
| M4     | 1.79mm | 9.5mm  | 2 | AB-922-E | ★ W709451-S424 |
| M4     | 1.79mm | 9.5mm  | 2 | AB-922-E | W709451-S900   |
| M10    | 1.50mm | \$18mm | 2 | AB-922-A | W708887-S434   |
| M4     |        | 24mm   | 3 | AB-924-A | N803469-S100   |
| M4     | —      | 218mm  | 3 | AB-924-D | W705806-S435   |
| M4.8   |        | 16mm   | 3 | AB-936   | ★ E812102-S74  |
| M6     | —      | 13mm   | 3 | AB-924-F | W708275-S900   |
| M6     | —      | 25mm   | 3 | AB-924-C | W706332-S435   |
| M6     | —      | 25mm   | 3 | AB-924-C | W706332-S900   |

\$ Plastic Patch

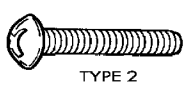
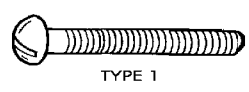
## PH-13 BOLT or SCREW — PAN HEAD with LOCKWASHER — CROSS RECESSED



| National Coarse Thread |        |        |      |              |              |
|------------------------|--------|--------|------|--------------|--------------|
| DIAMETER               | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
| No. 8                  | 18     | 1/2"   | 1    | BB-630-J     | ★ 384156-S2  |
| 1/4"                   | 20     | 5/8"   | 1    | BB-630-H     | ★ 111503-ES8 |

| Metric Coarse Thread |        |      |              |                |  |
|----------------------|--------|------|--------------|----------------|--|
| NOMINAL SIZE         | LENGTH | TYPE | LOCATOR CODE | PART NUMBER    |  |
| M3.5                 | 6mm    | 1    | AB-2-E       | ★ N800684-S51  |  |
| M4                   | 10mm   | 1    | AB-4         | ★ E603527-S72  |  |
| M4                   | 20mm   | 1    | AB-4-AJ      | ★ E603531-S72  |  |
| M6                   | 16mm   | 1    | AB-4-C       | ★ E603570-S72  |  |
| M8                   | 25mm   | 4    | AB-5-G       | ★ N801437-S2   |  |
| M4                   | 6.5mm  | 6    | AB-9-GA      | ★ E802644-S201 |  |
| M6                   | 30mm   | 6    | AB-9-G       | ★ E802139-S100 |  |
| M5                   | 10mm   | 7    | AB-9-J       | E802160-S201   |  |

## PH-48(A) BOLT or SCREW — ROUND HEAD



PH48A

| National Coarse Thread |        |        |      |              |               |
|------------------------|--------|--------|------|--------------|---------------|
| DIAMETER               | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER   |
| 5/16"                  | 18     | 5/8"   | 2    | BB-659       | ★ 355204-S7   |
| No. 8                  | 32     | 3-1/8" | 3    | BB-659-D     | ★ 379774-S7-8 |

| Special Thread |    |        |   |        |            |
|----------------|----|--------|---|--------|------------|
| 1/4"           | 32 | 29/64" | 1 | BB-660 | ★ 373246-S |

**PH-8**
**BOLT or SCREW — ROUND HEAD with LOCKWASHER**


TYPE 1

PH8

**National Coarse Thread**

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| No. 10   | 24     | 5/8"   | 1    | BB-639       | ★ 357182-S8 |
| 7/16"    | 14     | 55/64" | 2    | BB-639-B     | ★ 380041-S  |

**Metric**

| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|--------|------|--------------|---------------|
| M4           | 20mm   | 2    | AB-1-E       | ★ N800548-S51 |

**PH-47**
**BOLT or SCREW — ROUND HEAD — THIN — SLOTTED — SPECIAL**


PH47

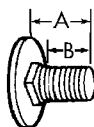
**Metric**

| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|--------|------|--------------|---------------|
| M5           | 8.5mm  | 3    | AB-319-E     | ★ E802214-S72 |

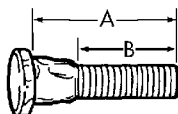
# Standard and Utility Parts Catalog

PH-49

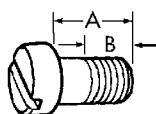
BOLT or SCREW — ROUND HEAD — SPECIAL



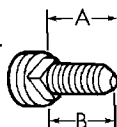
TYPE 1



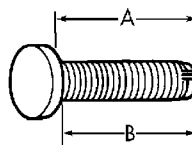
TYPE 2



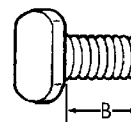
TYPE 3



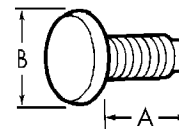
TYPE 4



TYPE 5



TYPE 7



TYPE 8

PH-49  
12/19/2002

## National Coarse Thread

| DIAMETER | THREAD | A      | B      | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|--------|--------|------|--------------|--------------|
| No. 10   | 24     | 3/8"   | 19/64" | 1    | BB-704-X     | ★374469-S2   |
| 5/16"    | 18     | 57/64" | 21/32" | 1    | BB-688-C     | ★373629-S7-8 |
| 3/8"     | 16     | 1-1/8" | 1"     | 1    | BB-688-B     | ★385204-S2   |
| 1/2"     | 13     | 2-3/4" | 2-1/4" | 1    | BB-688-E     | ★382272-S40  |
| 1/2"     | 13     | 3-1/2" | 2"     | 1    | BB-688-ED    | ★385449-S40  |
| 5/16"    | 18     | 1-1/2" | 21/32" | 2    | BB-688-F     | ★384281-S2   |
| 3/8"     | 16     | 1"     | 3/4"   | 2    | BB-688-D     | ★384527-S2   |

## National Fine Thread

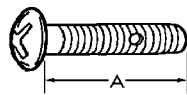
|       |    |          |        |   |          |            |
|-------|----|----------|--------|---|----------|------------|
| 5/16" | 24 | 57/64"   | 25/32" | 1 | BB-663-A | ★359955-S8 |
| 3/8"  | 24 | 1-15/16" | 1"     | 3 | BB-665-G | ★385183-S2 |
| 3/8"  | 24 | 2-1/4"   | 1"     | 3 | BB-665-K | ★385184-S2 |
| 3/8"  | 24 | 1-11/32" |        | 7 | BB-667-E | 387997-S   |

## Metric Coarse Thread

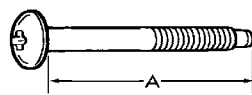
| NOMINAL SIZE | A       | B       | TYPE | LOCATOR CODE | PART NUMBER    |
|--------------|---------|---------|------|--------------|----------------|
| M10          | 40mm    |         | 1    | AB-141-E     | ★N801160-S100Δ |
| M6           | 18mm    | 13.5mm  | 2    | AB-143       | ★N804087-S2    |
| M6           | 50mm    | 16mm    | 2    | AB-187-A     | ★N808945-S2    |
| M12          | 10mm    | 8.5mm   | 3    | AB-148-G     | ★N800090-S51   |
| M8           | 25mm    | 21mm    | 4    | AB-168-EA    | ★N801686-S100  |
| M8           | 26mm    | 23mm    | 4    | AB-168-EB    | ★N801912-S53   |
| M4           | 8mm     | 7mm     | 7    | AB-186-G     | ★E804229-S72   |
| M5           | 15mm    |         | 7    | AB-186-GD    | ★V800289-S36C  |
| M6           | 16mm    |         | 7    | AB-185-D     | ★N800930-S39   |
| M6           | 12.0mm  |         | 8    | AB-186-A     | N806636-S8     |
| M6           | 20.75mm | 13.15mm | 8    | AB-186-B     | W706569-S403   |

Δ With Nylon Patch

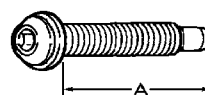
## PH-589 BOLT or SCREW — ROUND TRUSS HEAD



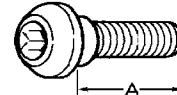
TYPE 1



TYPE 3



TYPE 6



TYPE 7

PH-589

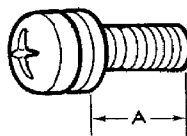
### National Coarse Thread

|       |    |        |   |          |              |
|-------|----|--------|---|----------|--------------|
| No. 8 | 32 | 7/32"  | 1 | BB-820   | ★376390-S100 |
| No. 8 | 32 | 7/32"  | 1 | BB-820   | ★376390-S100 |
| 5/16" | 18 | 7/8"   | 3 | BB-822-G | 378438-S40   |
| 1/2"  | 13 | 4-3/4" | 3 | BB-822-K | ★385283-S40  |
| 3/8"  | 16 | 1-3/8" | 6 | BB-822-F | ★387359-S2   |
| 3/8"  | 16 | 1"     | 7 | BB-829-E | ★388756-S36B |
| 9/16" | 12 | 1-1/2" | 7 | BB-829-F | ★388787-S40M |
| 7/16" | 20 | 1-1/2" | 7 | BB-829-G | ★389547-S190 |

### Metric Coarse Thread

| NOMINAL SIZE | A       | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|---------|------|--------------|---------------|
| M6           | 28mm    | 1    | AB-216-K     | N808161-SA    |
| M6           | 28mm    | 1    | AB-216-K     | N808161-S36   |
| M6           | 28mm    | 1    | AB-216-K     | N808161-S437  |
| M6           | 63mm    | 3    | AB-201-A     | ★W703169-S300 |
| M6           | 14.5mm  | 6    | AB-202-C     | ★N802467-S39  |
| M6           | 25mm    | 6    | AB-202-D     | ★N801851-S45  |
| M8           | 28mm    | 6    | AB-202-E     | N801010-S40   |
| M8           | 28mm    | 6    | AB-202-EA    | N801010-S101  |
| M8           | 28mm    | 6    | AB-202-EB    | N801010-S58   |
| M10          | 30mm    | 6    | AB-203-E     | ★N800318-S43B |
| M4           | 11.0mm  | 7    | AB-216-J     | N805911-S100  |
| M6           | 14.65mm | 7    | AB-216-D     | N807737-S     |
| M6           | 20.9mm  | 7    | AB-216-E     | ★N806304-S100 |
| M12          | 35mm    | 7    | AB-216-F     | ★N804447-S60  |
| M6           | 20.9mm  | 7    | AB-216-G     | N808620-S100  |
| M14          | 190mm   | 7    | AB-216-H     | N807575-S100  |

## PH-589(A) BOLT or SCREW — ADJUSTING



PH-589(A)

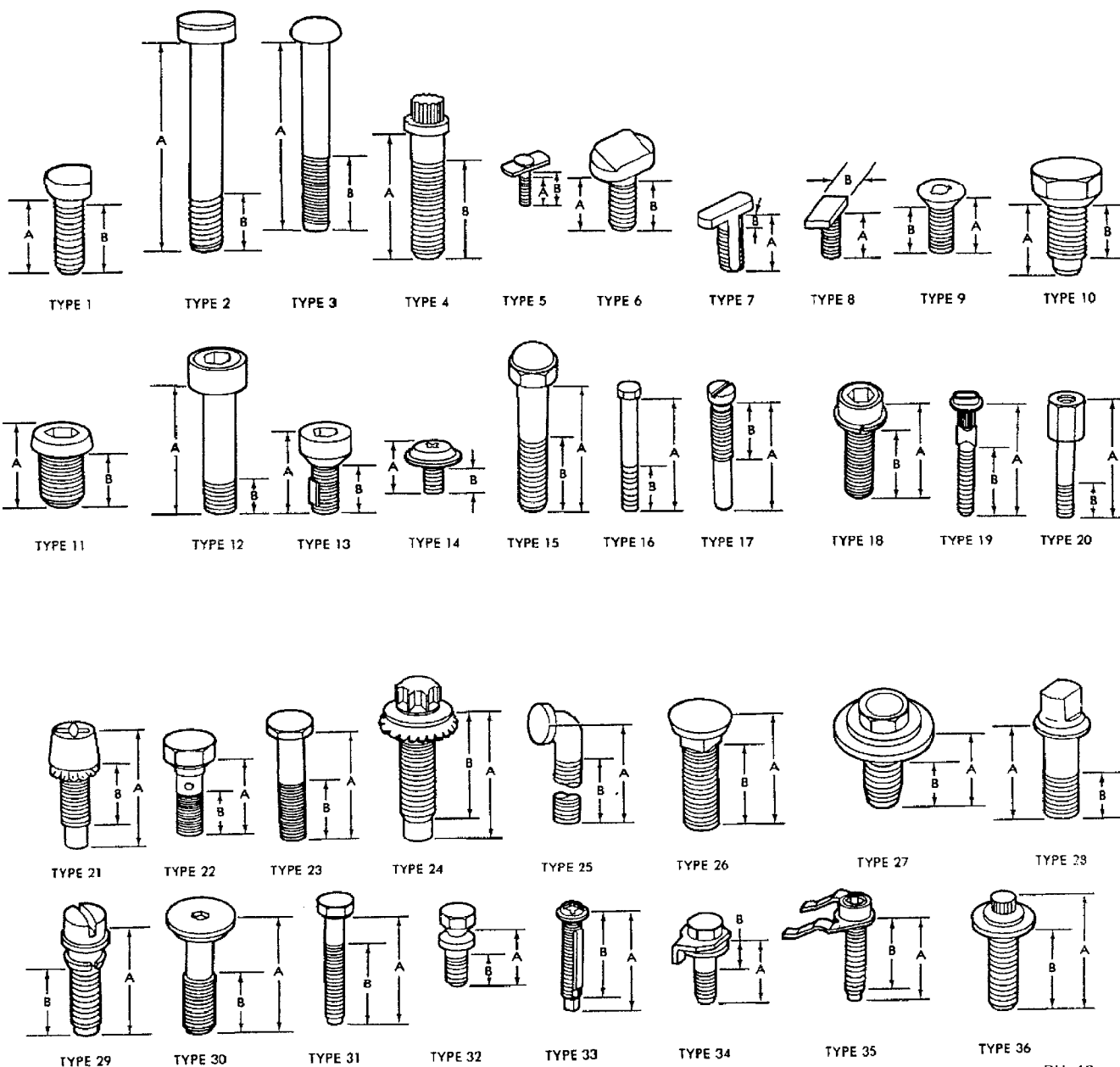
### Metric Coarse Thread

| NOMINAL SIZE | A   | LOCATOR CODE | PART NUMBER  |
|--------------|-----|--------------|--------------|
| M5           | 9mm | AB-200-G     | ★E804131-S72 |



PH-46

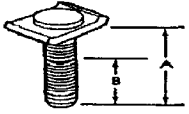
BOLT or SCREW — SPECIAL



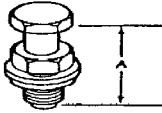
PH-46

(continued)

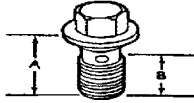
## PH-46(A) BOLT or SCREW — SPECIAL (Cont'd)



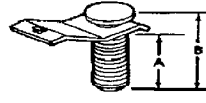
TYPE 37



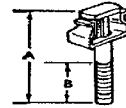
TYPE 38



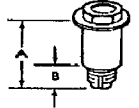
TYPE 39



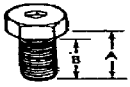
TYPE 40



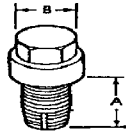
TYPE 41



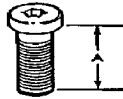
TYPE 42



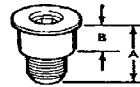
TYPE 43



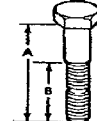
TYPE 44



TYPE 45



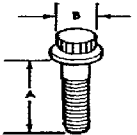
TYPE 46



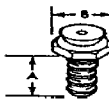
TYPE 47



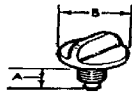
TYPE 48



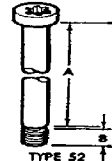
TYPE 49



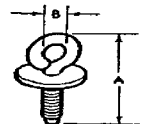
TYPE 50



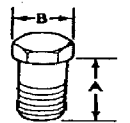
TYPE 51



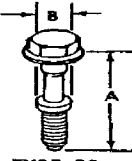
TYPE 52



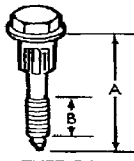
TYPE 53



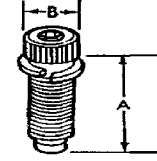
TYPE 54



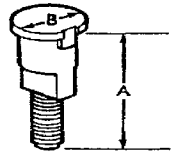
TYPE 55



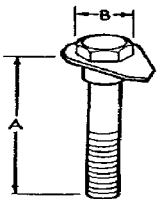
TYPE 56



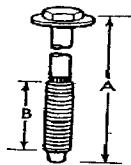
TYPE 57



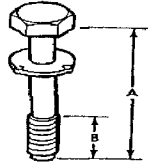
TYPE 58



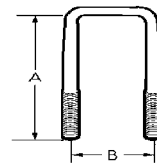
TYPE 59



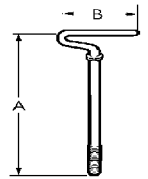
TYPE 60



TYPE 61



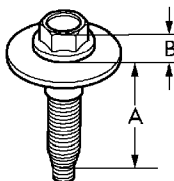
TYPE 62



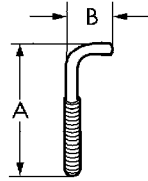
TYPE 63

PH-46(A)  
12/17/2002

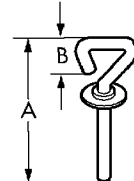
## PH-46(B) BOLT or SCREW — SPECIAL



TYPE 64



TYPE 65



TYPE 66

PH-46(B)  
12/01/2003

(continued)

# Standard and Utility Parts Catalog

**PH-46(B)    BOLT or SCREW — SPECIAL (Cont'd)**

| National Coarse Thread |        |          |          |      |              |              |
|------------------------|--------|----------|----------|------|--------------|--------------|
| DIAMETER               | THREAD | A        | B        | TYPE | LOCATOR CODE | PART NUMBER  |
| 1/2"                   | 13     | 1-1/4"   | 29/32    | 1    | BB-804-AE    | ★385553-S2   |
| 5/16"                  | 24     | 3/4"     | 11/32    | 4    | BB-815-AM    | 390735-S100  |
| 5/16"                  | 24     | 1-1/4"   | 1-1/8"   | 4    | BB-815-AF    | 385883-S100  |
| 7/16"                  | 14     | 1-1/4"   | 1-1/8"   | 4    | BB-815-DP    | ★387038-S2   |
| 7/16"                  | 14     | 1-1/2"   | 1-3/8"   | 4    | BB-815-DR    | ★386790-S2   |
| 1/2"                   | 13     | 1-1/4"   | 1-1/16"  | 4    | BB-815-DX    | ★384903-S2   |
| 5/8"                   | 11     | 1-1/2"   | 1-1/4    | 4    | BB-815-F     | ★U350339-S8  |
| 5/8"                   | 11     | 1-5/8"   | 1"       | 4    | BB-815-C     | ★379726-S2   |
| 5/8"                   | 11     | 2"       | 1-3/4"   | 4    | BB-815-D     | ★376973-S7-8 |
| 5/8"                   | 11     | 4-1/2"   | 1-3/4"   | 4    | BB-815-DD    | ★384656-S2   |
| No. 8                  | 32     | 7/8"     | 13/16"   | 5    | BB-815-EB    | ★387493-S32  |
| 3/8"                   | 16     | 1-11/64" | 59/64"   | 6    | BB-818-A     | ★384552-S100 |
| 1/2"                   | 13     | 1-1/8"   | 13/64"   | 7    | BB-817-BK    | ★377160-S7-8 |
| 1/4"                   | 20     | 5/8"     | 1/4"     | 8    | BB-807-FB    | ★388042-S    |
| 1/4"                   | 20     | 5/8"     | 9/32"    | 8    | BB-807-FA    | 383100-S40   |
| 5/16"                  | 18     | 1-3/16"  | 1/8"     | 8    | BB-807-L     | ★378234-S2   |
| 5/16"                  | 18     | 1-3/8"   | 33/64"   | 8    | BB-807-M     | ★391204-S2   |
| 1/4"                   | 20     | 5/8"     | 1/2"     | 9    | BB-807-G     | ★375932-S    |
| 1/2"                   | 13     | 1-1/8"   | 7/8"     | 10   | BB-817-Q     | ★379068-S    |
| No. 8                  | 32     | 1-35/64" | 5/8"     | 12   | BB-817-AA    | ★378642-S13  |
| No. 10                 | 24     | 11/16"   | 25/64"   | 12   | BB-817-AC    | ★375924-S    |
| No. 10                 | 24     | 15/16"   | 1/4"     | 12   | BB-817-Y     | ★378390-S    |
| 1/2"                   | 13     | 5-1/2"   | 1-3/4"   | 12   | BB-817-JD    | ★384593-S2   |
| No. 10                 | 24     | 5/8"     | 1/2"     | 14   | BB-817-AB    | ★378524-S7-8 |
| 1/4"                   | 20     | 1-5/32"  | 3/4"     | 14   | BB-817-AE    | ★383985-S100 |
| 3/8"                   | 16     | 1-1/16"  | 1/2"     | 15   | BB-817-AG    | 352665-S39   |
| 3/8"                   | 16     | 1-1/16"  | 1/2"     | 15   | AB-817-AH    | 391119-S     |
| 1/2"                   | 13     | 21/32"   | 9/16"    | 15   | BB-817-AU    | ★388493-S100 |
| 1/2"                   | 13     | 1"       | 3/4"     | 15   | 010-010      | 58675-S2     |
| 9/16"                  | 12     | 4-1/4"   | 1-3/8"   | 16   | BB-817-AR    | ★380826-S100 |
| 9/16"                  | 12     | 4-1/2"   | 1-21/32" | 16   | BB-817-AT    | ★380831-S2   |
| No. 10                 | 24     | 1-37/64" | 15/16"   | 19   | BB-817-CE    | ★383758-S    |
| 1/4"                   | 20     | 3-5/16"  | 13/16"   | 20   | BB-817-CC    | ★385989-S    |
| 5/16"                  | 18     | 2-1/16"  | 1-9/16"  | 21   | BB-817-CQ    | ★381527-S36  |
| 5/16"                  | 18     | 1-7/32"  | 1"       | 23   | BB-817-XE    | ★388778-S2   |
| 1/2"                   | 13     | 4-7/8"   | 1-1/4"   | 23   | BB-817-XC    | ★374837-S8   |
| 5/16"                  | 18     | 7/8"     | 11/16"   | 24   | BB-817-YE    | ★383500-S100 |
| 3/8"                   | 16     | 3-41/64" | 2-59/64" | 25   | BB-187-WM    | ★384460-S    |
| 3/8"                   | 16     | 9-1/4"   | 8"       | 25   | BB-187-WN    | 389983-S2    |
| No. 10                 | 24     | 15/16"   | 13/16"   | 26   | BB-894       | ★385273-S37  |
| No. 8                  | 32     | 7/16"    | 11/32"   | 27   | BB-817-AK    | ★382576-S2   |
| 1/4"                   | 20     | 7/8"     | 9/16"    | 29   | BB-897       | ★386214-S100 |
| 7/16"                  | 14     | 1-13/32" | 7/8"     | 34   | BB-922-E     | ★387941-S100 |
| 1/4"                   | 20     | 3/4"     | 21/32"   | 35   | BB-927-EE    | ★388351-S2   |
| 3/8"                   | 16     | 1-3/16"  | 1-1/8"   | 36   | BB-929-E     | ★388431-S    |
| 1/2"                   | 13     | 2-1/2"   |          | 38   | BB-940       | ★387224-S100 |
| No. 10                 | 24     | 1-19/32" | 3/4"     | 41   | BB-945-E     | ★389260-S2   |
| 3/4"                   | 10     | 7"       | 3-1/2"   | 47   | 010-010      | 58756-S2     |
| 7/8"                   | 9      | 3"       | 1-1/2"   | 47   | 010-010      | 58764-S2     |
| 3/16"                  | 18     | 1-1/2"   |          | 49   | BB-945-FC    | 390214-S2    |
| 3/8"                   | 16     | 1-3/4"   |          | 49   | BB-945-F     | 390216-S2    |
| 5/8"                   | 11     | 1-3/4"   | 5/8"     | 49   | BB-945-G     | ★390486-S    |
| 5/8"                   | 11     | 4.00     | .9375    | 59   | AB-951-A     | 391976-S436  |

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## PH-46(B) BOLT or SCREW — SPECIAL (Cont'd)

| National Fine Thread |    |           |        |    |           |               |
|----------------------|----|-----------|--------|----|-----------|---------------|
| 1/4"                 | 28 | 11/32"    | 1/4"   | 1  | BB-799    | ★382223-S2    |
| 5/16"                | 24 | 1-5/8"    | 15/16" | 2  | BB-817-G  | ★380735-S     |
| 3/4"                 | 16 | 2-3/4"    | 9/16"  | 2  | BB-817-BB | ★380908-S2    |
| 7/16"                | 20 | 3-3/4"    | 1-1/2" | 3  | BB-813    | ★350620-S8    |
| 1/4"                 | 28 | 1-1/8"    | 61/64" | 4  | BB-798    | ★389651-S100  |
| 5/16"                | 24 | 1-1/4"    | 1-1/8" | 4  | BB-815-AF | 385883-S100   |
| 3/8"                 | 24 | 1-7/32"   | 19/32" | 4  | BB-815-AA | ★385970-S101  |
| 3/8"                 | 24 | 1-7/32"   | 5/8"   | 4  | BB-815-AD | ★385970-S100Δ |
| 1/2"                 | 20 | 1-11/64"  | 55/64" | 6  | BB-818-G  | ★386981-S     |
| 5/16"                | 24 | 1-1/64"   | 1"     | 11 | BB-817-T  | ★378268-S2    |
| 3/8"                 | 24 | 1-1/8"    | 5/8"   | 22 | BB-817-CV | 385116-S2     |
| 5/8"                 | 18 | 2-1/2"    | 1-1/4" | 30 | BB-817-JF | ★386923-S2    |
| 9/16"                | 12 | 7-3/4"    | 5"     | 31 | BB-921-E  | ★387372-S100  |
| 9/16"                | 12 | 9-1/16"   | 5-1/2" | 31 | BB-921-F  | ★387373-S100  |
| 9/16"                | 12 | 10-25/32" | 6"     | 31 | BB-921-G  | ★387371-S100  |

| Metric       |        |        |      |              |      |               |
|--------------|--------|--------|------|--------------|------|---------------|
| NOMINAL SIZE | A      | B      | TYPE | LOCATOR CODE | P/C  | PART NUMBER   |
| M6           | 10mm   | 10mm   | 4    | AB-360-D     | —    | ★N800207-S100 |
| M8           | 30mm   | 27mm   | 4    | AB-917-H     | —    | ★N801221-S100 |
| M12          | 27mm   | 27mm   | 4    | AB-308-D     | 12.9 | N800594-S100  |
| M4           | 12.5mm | 11.5mm | 5    | AB-123-H     |      | ★E804270-S72  |
| M6           | 16mm   | 7mm    | 8    | AB-123-GA    |      | N801512-S100  |
| M8           | 20mm   |        | 9    | AB-917-E     |      | ★N800474-S2   |
| M5           | 35mm   |        | 12   | AB-189-F     | 8.8  | ★E804372-S72  |
| M6           | 16mm   | 16mm   | 12   | AB-189-E     |      | ★E804639-S72  |
| M8           | 20mm   | 18mm   | 12   | AB-190-H     | 10.9 | ★E804061-S72M |
| M8           | 20mm   | 18mm   | 12   | AB-190-G     |      | ★E804061-S72  |
| M8           | 35mm   | 22mm   | 12   | AB-190-J     | 10.9 | E804375-S1MR  |
| M8           | 35mm   | 22mm   | 12   | AB-190-J     | 10.9 | ★E804375-S72M |
| M8           | 35mm   | 22mm   | 12   | AB-190-K     | 10.9 | W701429-S300  |
| M8           | 35mm   | 22mm   | 12   | AB-190-K     | 10.9 | W701429-S309M |
| M8           | 70mm   | 1.25mm | 12   | AB-189-A     | 9.8  | ★N802902-S2   |
| M12          | 65mm   |        | 12   | AB-189-L     |      | ★E804666-S72  |
| M18          | 38mm   | 23mm   | 12   | AB-189-B     |      | ★U800819-S    |
| M18          | 38mm   | 23mm   | 12   | AB-189-BA    |      | ★U801127-S    |
| M10          | 30mm   | 20mm   | 13   | AB-120-G     |      | ★E804483-S72  |
| M10          | 27mm   | 14mm   | 15   | AB-137-G     |      | ★N800929-S39  |
| M5           | 7.98mm | 3.58mm | 18   | AB-303       |      | ★N800162-S2   |
| M6           | 23mm   | 21mm   | 18   | AB-303-A     | 9.8  | ★N804499-S2   |
| M6           | 29.5mm | 23.5mm | 18   | AB-303-B     | 9.8  | ★N804425-S    |
| M12          | 72mm   | 36mm   | 20   | AB-817       | 8.8  | ★E805261-S72  |
| M6           | 15mm   | 12mm   | 23   | AB-838-D     | 8.8  | W700964-S309  |
| M8           | 29mm   | 22mm   | 26   | AB-239       | 9.8  | ★N800744-S102 |
| M10          | 50mm   | 27mm   | 26   | AB-241       | 9.8  | ★N802498-S2   |
| M6           | 25mm   | 23.3mm | 27   | AB-240       | 8.8  | ★N802192-S43M |
| M8           | 33mm   | 25mm   | 27   | AB-242       | 9.8  | ★N803038-S2   |
| M8           | 35mm   | 17mm   | 28   | BB-915       |      | ★E804438-S    |
| M6           | 14mm   | 16.5mm | 30   | AB-250-J     | 9.8  | N807780-S55   |
| M8           | 20mm   | 14mm   | 30   | AB-250-E     |      | ★N801545-S100 |
| M8           | 30mm   | 23mm   | 30   | AB-250-H     |      | ★N801546-S100 |
| M14          | 200mm  | 55mm   | 30   | AB-317-ED    |      | ★N801782-S2   |
| M14          | 225mm  | 55mm   | 30   | AB-317-EG    | 5.8  | ★N801783-S100 |
| M14          | 265mm  | 55mm   | 30   | AB-317-JB    |      | ★N801784-S100 |
| M14          | 315mm  | 85mm   | 30   | AB-317-JC    | 5.8  | ★N801785-S2   |
| M8           | 18.5mm | 11mm   | 32   | AB-304-E     |      | ★E804633-S72  |
| M12          | 71.3mm | 42mm   | 32   | AB-304-F     | 10.9 | W701494-S309  |
| M5           | 17mm   | 12mm   | 33   | AB-316-E     |      | ★E802144-S74  |
| M5           | 22.8mm | 18mm   | 33   | AB-316-A     |      | ★N802133-S74  |
| M14          | 87.5mm | 31mm   | 34   | AB-316-G     | 10.9 | ★N806798-S42B |
| M14          | 96mm   | 24.5mm | 34   | AB-316-F     | 9.8  | N808391-S100  |
| M6           | 13mm   | —      | 36   | BB-940-A     | 8    | W708273-S900  |

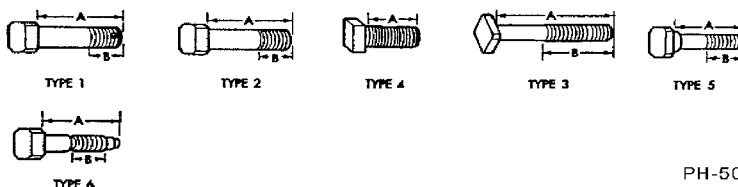
Δ Has Locking Patch

(continued)

# Standard and Utility Parts Catalog

PH-46(B)    BOLT or SCREW — SPECIAL (Cont'd)

| Metric (Cont'd) |         |         |      |              |               |                |
|-----------------|---------|---------|------|--------------|---------------|----------------|
| NOMINAL SIZE    | A       | B       | TYPE | LOCATOR CODE | P/C           | PART NUMBER    |
| M10             | 69mm    | 36mm    | 37   | AB-919-E     |               | ★ N801077-S100 |
| M10             | 24mm    | 10mm    | 39   | AB-920-F     |               | N801052-S100   |
| M6              | 15.7mm  | 20.0mm  | 40   | AB-921-L     | —             | N800358-S309   |
| M6              | 16mm    | 10mm    | 40   | AB-921-D     | 9.8           | N804057-S2     |
| M6              | 16mm    | 10mm    | 40   | AB-921-D     | 9.8           | W804057-S439   |
| M6              | 17.00mm | 25.00mm | 40   | AB-921-DA    | —             | N811798-S301   |
| M6              | 19.2mm  | 20mm    | 40   | AB-921-G     |               | ★ N800946-S36  |
| M6              | 19.2mm  | 20mm    | 40   | AB-921-G     | —             | N800946-S309   |
| M6              | 20mm    | 14mm    | 40   | AB-921-E     |               | ★ N800358-S2   |
| M6              | 20mm    | 14mm    | 40   | AB-921-E     | —             | N800358-S309   |
| M8              | 22.48mm | 17.21mm | 40   | AB-921-H     | 9.8           | ★ N804453-S100 |
| M6              | 50mm    | 117.5mm | 40   | AB-921-J     |               | ★ N805537-S100 |
| M8              | 20mm    |         | 40   | AB-921-F     | 9.8           | N804453-S55    |
| M14             | 70mm    | 80mm    | 40   | AB-921-AA    | 9.0           | ★ W707034-S436 |
| M6              | 34mm    | 9.2mm   | 42   | AB-925       | 9.8           | ★ N801291-S8   |
| M6              | 16.9mm  | 12.9mm  | 43   | AB-921-K     |               | ★ N807329-S100 |
| M8              | 15mm    | 12mm    | 44   | AB-260       | 8.8           | ★ N801750-S2   |
| M8              | 20mm    | 12mm    | 44   | AB-260-A     | 8.8           | N803500-S2     |
| M12             | 25mm    | 15mm    | 44   | AB-260-AA    | 010           | W505244-S426   |
| M4              | 16mm    |         | 45   | AB-927       | 9.8           | ★ N802837-S51  |
| M4              | 20mm    |         | 45   | AB-927-B     | 9.8           | ★ N804086-S100 |
| M8              | 19.6mm  | —       | 45   | AB-260-B     | —             | W701885-S2     |
| M8              | 31mm    |         | 45   | AB-927-A     |               | ★ N802975-S2   |
| M8              | 36mm    |         | 45   | AB-927-D     | 9.8,9.81,9.82 | ★ N802903-S2   |
| M10             | 30mm    | 15.5mm  | 45   | AB-927-E     | 9.0           | ★ W700758-S306 |
| M10             | 35mm    |         | 45   | AB-927-C     | 10.9          | ★ N806213-S100 |
| M5              | 27.50mm | 10.0mm  | 46   | AB-928-D     | 8.8           | W710313-S424   |
| M10             | 31.5mm  | 16mm    | 46   | AB-928       | 9.8           | N801538-S2     |
| M10             | 37.5mm  | 16.5mm  | 46   | AB-928-C     | —             | N811564-S424   |
| M6              | 47.5mm  | 13.5mm  | 46   | AB-928-B     | 9.8           | N808341-S61    |
| M12             | 29.25mm | 16.4mm  | 46   | AB-928-A     | 9.8           | N808107-S190   |
| M6              | 22.5mm  | 19mm    | 48   | AB-921-EE    | 9.8           | N805651-S61    |
| M6              | 29.0mm  | 25.0mm  | 51   | AB-932-A     | —             | W708905-S309   |
| M6              | 60mm    | 34mm    | 53   | AB-934-A     |               | N808595-S2     |
| M6              | 26mm    | 10mm    | 57   | AB-940-E     | 9.8           | N804931-S      |
| M6              | 27mm    | 17mm    | 58   | AB-963-A     | 8             | W703651-S309   |
| M10             | 39.47mm | 16mm    | 58   | AB-942       | —             | W707908-S900   |
| M6              | 25.25mm | 15.8mm  | 59   | 130-011      | 9.8           | N811059-S309   |
| M10             | 20.0mm  | 55mm    | 59   | 130-011      | 10.9          | W706005-S426   |
| M12             | 100.5mm | 19mm    | 59   | AB-950-AC    | 8             | N811771-S436   |
| M14             | 38mm    | 91mm    | 59   | AB-950-Q     |               | W707363-S436   |
| M16             | 108mm   | 24mm    | 59   | AB-951       | 10.9          | W708108-S426   |
| M8              | 29mm    | 19mm    | 61   | AB-961       |               | N804465-S2     |
| M8              | 69.8mm  | 21mm    | 61   | AB-961-B     |               | N804466-S2     |
| M16             | 189mm   | 84mm    | 62   | AB-962-A     | 9.8           | N811876-S100   |
| M14             | 250mm   | 98mm    | 62   | AB-962-B     | 8.8           | W704611-S436   |
| M10             | 137.7mm | 102mm   | 62   | AB-962-C     | 9.8           | N811671-S436   |
| M12             | 155mm   | 87mm    | 62   | AB-962-F     | 8.8           | W710286-S436   |
| M12             | 164mm   | 87mm    | 62   | AB-962-D     | 8             | W708550-S436   |
| M12             | 218mm   | 87mm    | 62   | AB-962-G     | 8.8           | W710287-S436   |
| M14             | 233mm   | 98mm    | 62   | AB-962-E     | 8.8           | W710285-S436   |
| M6              | 141.5mm | 48mm    | 63   | AB-964-A     | —             | W700262-S309   |
| M6              | 151.0mm | 48mm    | 63   | AB-964-B     | —             | W700884-S303   |
| M5              | 20.0mm  | 5.8mm   | 64   | AB-965-A     | 8.8           | W709246-S424   |
| M16             | 108mm   | 40mm    | 65   | AB-929       | —             | W710329-S424   |
| M6              | 99.8mm  | 26.7mm  | 66   | AB-970       | —             | W710347-S430   |

**PH-50**
**BOLT or SCREW — SQUARE HEAD**


PH-50

**National Coarse Thread**

| DIAMETER | THREAD | A      | B    | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|------|--------------|-------------|
| 1/4"     | 20     | 1-1/2" | 3/4" | 3    | BB-842-G     | 383849-S2   |

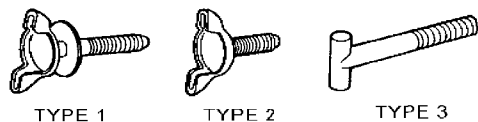
**National Fine Thread**

|        |    |          |        |   |          |              |
|--------|----|----------|--------|---|----------|--------------|
| 7/16"  | 20 | 1-5/8"   | 5/8"   | 1 | BB-834   | ★ 350609-S8  |
| 7/16"  | 20 | 1-3/8"   | 27/32" | 2 | BB-835   | ★ 355719-S   |
| 1/2"   | 20 | 1-3/4"   | 1"     | 2 | UU-118   | ★ 358688-S8  |
| 5/8"   | 18 | 1-15/16" | 1-1/8" | 2 | BB-841   | ★ 358703-S8  |
| 5/16"  | 24 | 3/4"     |        | 4 | BB-838   | ★ 373279-S2  |
| No. 10 | 32 | 21/32"   | 29/64" | 5 | BB-834-C | ★ 379251-S8B |

**Metric Coarse Thread**

| NOMINAL SIZE | A      | B    | TYPE | LOCATOR CODE | PART NUMBER    |
|--------------|--------|------|------|--------------|----------------|
| M6           | 19mm   | 14mm | 2    | AB-834-E     | ★ E805262-S72  |
| M8           | 30mm   | 30mm | 2    | AB-835       | ★ E805422-S72  |
| M12          | 62mm   | 34mm | 2    | AB-839-B     | N806579-S428   |
| M4           | 15mm   | 15mm | 3    | AB-144-E     | ★ E804482-S72  |
| M6           | 16mm   | 11mm | 3    | AB-145-E     | ★ E804459-S72  |
| M6           | 16.2mm | 16mm | 3    | AB-145-F     | N805925-S56    |
| M6           | 19mm   | 17mm | 3    | AB-145-G     | ★ N801480-S2   |
| M6           | 19mm   | 17mm | 3    | AB-838-B     | N802375-S301   |
| M12          | 40mm   | 18mm | 3    | AB-838-C     | N800883-S60    |
| M6           | 19mm   | 17mm | 4    | AB-838       | ★ N802375-S2   |
| M6           | 19mm   | 17mm | 4    | AB-838-D     | ★ N802375-S    |
| M6           | 19mm   | 19mm | 4    | AB-838-A     | ★ E804020-S72  |
| M10          | 47mm   | 17mm | 6    | AB-839       | ★ N806580-S160 |
| M12          | 64mm   | 25mm | 6    | AB-839-A     | N806579-S150   |

| NOMINAL SIZE | A    | B    | TYPE | LOCATOR CODE | P/C | PART NUMBER  |
|--------------|------|------|------|--------------|-----|--------------|
| M6           | 15mm | 12mm | 23   | AB-838-D     | 8.8 | W700964-S309 |

**PH-227**
**BOLT or SCREW — WING or TEE**


PH-227

**National Coarse Thread**

| DIAMETER | THREAD | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|--------|---------|------|--------------|---------------|
| 1/4"     | 20     | 5/8"    | 2    | BB-830-B     | ★ 388352-S9   |
| 1/4"     | 20     | 3/4"    | 2    | BB-830-A     | ★ 382461-S9   |
| 1/4"     | 20     | 1"      | 2    | BB-830       | ★ 359197-S8   |
| 1/4"     | 20     | 29/32"  | 2    | BB-830-D     | ★ 389715-S8   |
| 1/4"     | 20     | 3/4"    | 2    | BB-830-G     | ★ 383132-S9   |
| 1/4"     | 20     | 1-3/64" | 2    | BB-830-E     | ★ 389971-S36B |
| 1/4"     | 20     | 1-3/64" | 2    | BB-830-F     | ★ 390014-S36B |
| 5/16"    | 18     | 2-1/4"  | 2    | BB-833-AA    | ★ 382919-S    |
| 3/8"     | 16     | 5-5/8"  | 2    | BB-830-L     | ★ 389684-S    |
| 3/8"     | 16     | 2-3/4"  | 3    | BB-826-K     | 386025-S      |

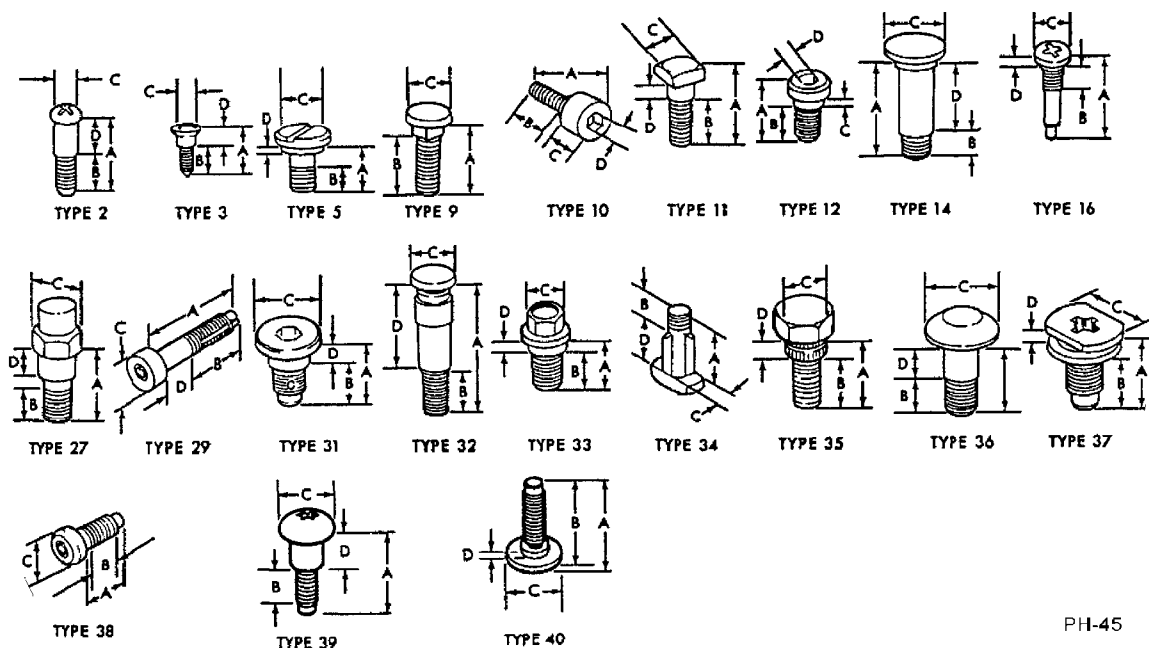
(continued)

# Standard and Utility Parts Catalog

## PH-227 BOLT or SCREW — WING or TEE (cont'd)

| Metric       |         |      |              |             |
|--------------|---------|------|--------------|-------------|
| NOMINAL SIZE | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER |
| M6           | 20mm    | 1    | AB-475-E     | ★N800619-S2 |
| M6           | 71mm    | 1    | AB-475-A     | ★N803565-S2 |
| M8           | 25.40mm | 2    | AB-475-F     | ★N800338-S2 |
| M4           | 30mm    | 2    | AB-475-H     | ★N803101-S2 |
| M8           | 48mm    | 2    | AB-475-G     | ★N800920-S  |
| M8           | 48mm    | 2    | AB-475-GA    | ★N800920-S2 |
| M4.2         | 30mm    | 2    | AB-475-J     | ★N803306-S2 |

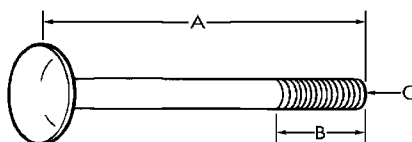
## PH-45 BOLT or SCREW — SHOULDER



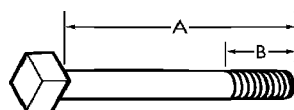
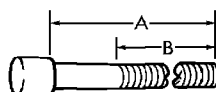
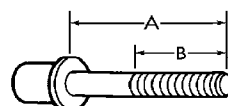
| National Coarse Thread |        |          |        |        |         |             |       |      |              |               |
|------------------------|--------|----------|--------|--------|---------|-------------|-------|------|--------------|---------------|
| DIAMETER               | THREAD | A        | B      | C      | D       | HEAD TAPPED | HEAD  | TYPE | LOCATOR CODE | PART NUMBER   |
| 1/2"                   | 13     | 1-3/8"   | 7/8"   | 27/32" | 1/2"    | Torx        | Pan   | 29   | BB-817-WF    | 385709-S36    |
| 3/8"                   | 16     | 1-1/8"   | 27/32" | 49/64" | 25/64"  |             | Round | 31   | BB-839-KA    | 385329-S2     |
| 1/2"                   | 13     | 1-11/16" | 3/4"   | 17/32" | 1-1/32" |             | Tee   | 34   | BB-817-WK    | ★ 385713-S101 |

| National Fine Thread |    |         |       |        |       |  |     |    |           |                |
|----------------------|----|---------|-------|--------|-------|--|-----|----|-----------|----------------|
| 1/4"                 | 28 | 1-3/64" | 9/32" | 31/64" | 7/64" |  | Pan | 16 | BB-701-PA | ★ 380503-S101Δ |

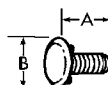
| Metric Coarse Thread |        |         |         |        |      |              |              |
|----------------------|--------|---------|---------|--------|------|--------------|--------------|
| NOMINAL SIZE         | A      | B       | C       | D      | TYPE | LOCATOR CODE | PART NUMBER  |
| M5                   | 14.4mm | 10mm    | 4.4mm   | 4.8mm  | 10   | AB-325-F     | N802353-S101 |
| M6                   | 18.3mm | 11.9mm  | 1.9mm   | 5.61mm | 12   | AB-125-M     | N806664-S437 |
| M10                  | 25mm   | 19.25mm | 3.5mm   | 6.8mm  | 12   | AB-112-B     | N807899-S43B |
| M8                   | 66.9mm | 53.44mm | 14.27mm | —      | 29   | AB-125-K     | W701903-S309 |
| M6                   | 17mm   | 12mm    | 10mm    | 0.2mm  | 33   | AB-136-EA    | W707975-S435 |
| M8                   | 20mm   | 15.8mm  | 13mm    | 4.13mm | 33   | AB-136-E     | N800297-S36  |
| M8                   | 22mm   | 17mm    | 19.5mm  | 5mm    | 37   | AB-322-B     | N806909-S100 |
| M12                  | 34.5mm | 32.7mm  | 40.0mm  | 1mm    | 37   | AB-322-E     | N811332-S301 |
| M12                  | 33.5mm | 20mm    | 21.5mm  | 9.5mm  | 38   | AB-322       | N803886-S190 |
| M6                   | 14.5mm | 8.9mm   | 17.3mm  | 3.6mm  | 39   | AB-326-A     | N800167-S2   |
| M8                   | 18mm   | —       | —       | —      | 39   | AB-326-D     | W708128-S306 |

**PH-19**
**BOLT — STEP**

**PH19**
**National Coarse Thread**

| DIAMETER | THREAD | A      | B  | C | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|----|---|--------------|-------------|
| 1/2"     | 13     | 4-1/4" | 2" |   | BB-688-EK    | ★385450-S40 |

**PH-56**
**BOLT — TIE**

**TYPE 1**

**TYPE 2**

**TYPE 4**
**PH56**
**National Fine Thread**

| DIAMETER | THREAD | A        | B        | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|----------|----------|------|--------------|-------------|
| 5/16"    | 24     | 5-1/2"   | 3-1/2"   | 1    | BB-847       | ★355405-S   |
| 3/8"     | 24     | 5-15/32" | 5/8"     | 2    | BB-848-A     | ★374738-S36 |
| 3/8"     | 24     | 6-3/4"   | 6"       | 2    | BB-853       | ★350600-S   |
| 7/16"    | 20     | 6"       | 4-13/32" | 2    | BB-854       | ★355700-S   |
| 5/16"    | 24     | 2-3/8"   | 1-11/16" | 4    | BB-859-A     | ★385275-S   |

**PH-751**
**BOLT — WELDING**

**PH751**

| DIAMETER | THREAD | A      | B     | LOCATOR CODE | PART NUMBER  |
|----------|--------|--------|-------|--------------|--------------|
| 1/4"     | 20     | 3/4"   | 9/16" | BB-935-E     | ★373649-S36B |
| 5/16"    | 18     | 1-1/2" | 3/4"  | BB-935-F     | ★390787-S2   |

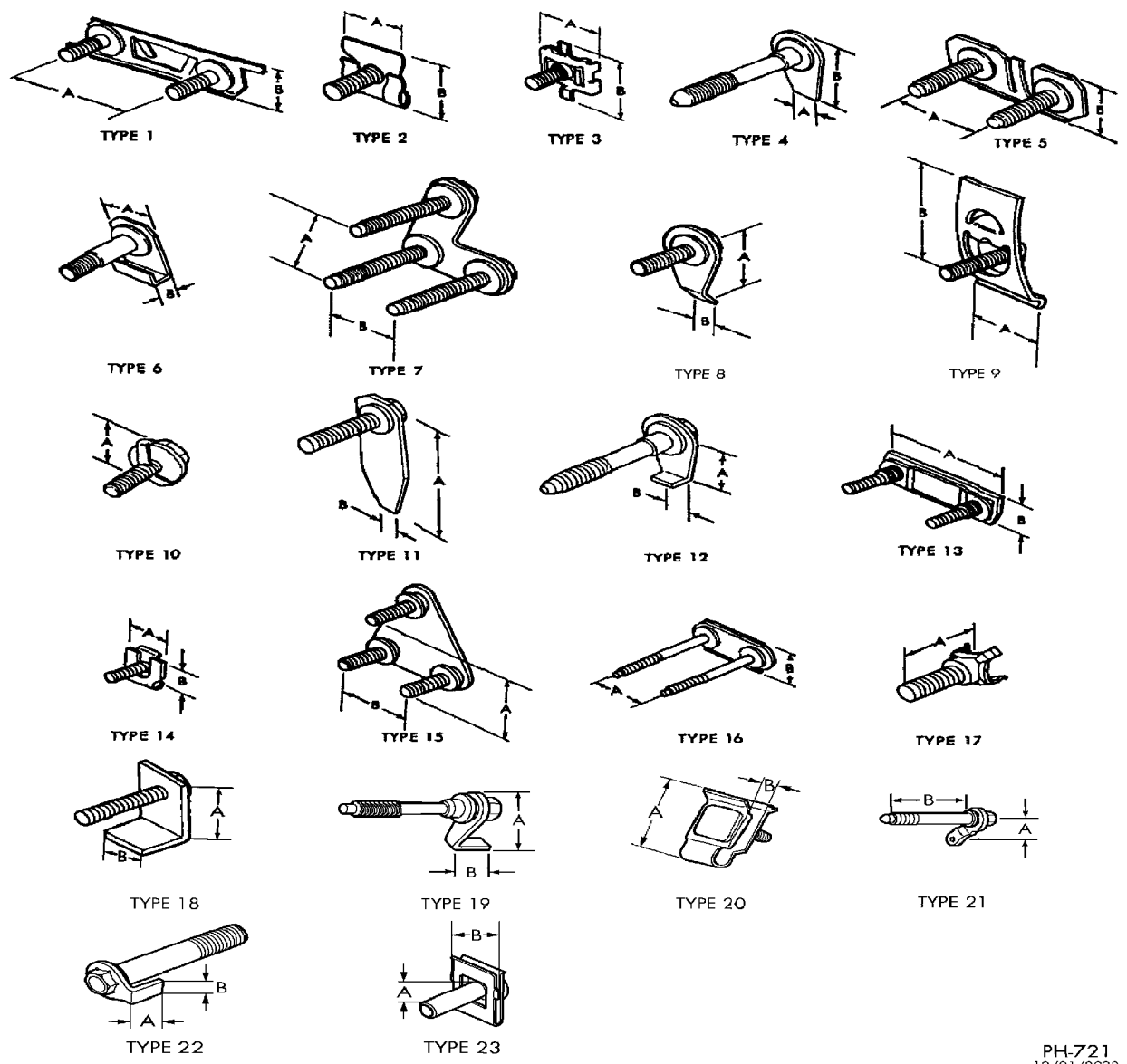
**Metric**

|    |  |      |      |        |            |
|----|--|------|------|--------|------------|
| M6 |  | 16mm | 12mm | AB-935 | N802259-S2 |
|----|--|------|------|--------|------------|



# Standard and Utility Parts Catalog

## PH-721 BOLT or SCREW and RETAINER ASSEMBLY



PH-721  
12/01/2003

### National Coarse Thread

| DIAMETER | THREAD | LENGTH | A      | B    | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|--------|--------|------|------|--------------|--------------|
| 1/4"     | 20     | 5/8"   | 13/16" | 3/4" | 2    | BB-879       | ★371544-S100 |
| No. 10   | 19     | 3/4"   | 5/8"   |      | 10   | BB-880       | 390278-S2    |
| 7/16"    | 14     | 1-1/4" | 1-5/8" |      | 17   | BB-882-E     | ★391132-S58  |

(continued)

# Standard and Utility Parts Catalog

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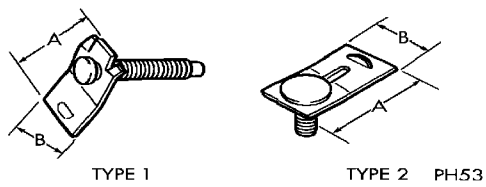
## PH-721 BOLT or SCREW and RETAINER ASSEMBLY (cont'd)

| Metric   |        |          |          |         |      |              |                |
|----------|--------|----------|----------|---------|------|--------------|----------------|
| DIAMETER | THREAD | LENGTH   | A        | B       | TYPE | LOCATOR CODE | PART NUMBER    |
| M12      | 1.75mm | 35mm     | 75mm     | 36mm    | 1    | AB-1-A       | N802246-S100   |
| M12      | 1.75mm | 166.6mm  | 134mm    | 33.5mm  | 1    | AB-1-R       | ★ N807237-S    |
| M6       | 1.1mm  | 20.0mm   | 15.87mm  | 25.40mm | 2    | AB-1-SA      | W701701-S437M  |
| M10      | 1.5mm  | 62mm     | 11mm     | 30mm    | 4    | AB-1-F       | W709774-S439   |
| M12      | 1.75mm | 40mm     | 35mm     | 91mm    | 4    | AB-1-N       | ★ N804933-S150 |
| M12      | 1.75mm | 83mm     | 13mm     | 51mm    | 4    | AB-1-AD      | N803336-S150   |
| M12      | 1.75mm | 93mm     | 13mm     | 51mm    | 4    | AB-1-HA      | N804348-S60    |
| M12      | 1.75mm | 93mm     | 13mm     | 51mm    | 4    | AB-1-H       | N804348-S100   |
| M14      | —      | 118mm    | 16.8mm   | 30mm    | 4    | AB-1-AG      | W710443-S439   |
| M16      | —      | 45mm     | 20mm     | 50mm    | 4    | AB-1-AZ      | W708563-S426   |
| M16      | 2.0mm  | 92.7mm   | 14.2mm   | 38.0mm  | 4    | AB-1-AAA     | W709498-S439   |
| M10      | 1.5mm  | 38.4mm   | 29.4mm   | 4.5mm   | 6    | AB-1-GA      | W707408-S426   |
| M10      | 1.50mm | 55mm     | 38mm     |         | 7    | AB-1-K       | ★ N803691-S150 |
| M12      | —      | \$35.0mm | 19mm     | 33mm    | 8    | AB-1-LC      | W709683-S426   |
| M12      | 1.75mm | 40mm     | 33.5mm   | 13mm    | 8    | AB-1-LB      | N805013-S100   |
| M6       | —      | 28.0mm   | 27.65mm  | 45.47mm | 9    | AB-1-MA      | N807199-S436   |
| M8       | —      | 19mm     | 29.5mm   | 44.6mm  | 9    | AB-1-C       | W706581-S436   |
| M12      | 1.75mm | 35mm     | 69mm     | 13mm    | 11   | AB-1-RE      | N805420-S101   |
| M12      | 1.75mm | 35mm     | 69mm     | 13mm    | 11   | AB-1-RE      | N805420-S102   |
| M12      | 1.75mm | 35mm     | 69mm     | 13mm    | 11   | AB-1-RE      | N805420-S439   |
| M12      | 1.75mm | 35mm     | 51.0mm   | 6.5mm   | 11   | AB-1-ZA      | W705106-S436   |
| M12      | 1.75mm | 93.0mm   | 51.0mm   | 13.0mm  | 11   | AB-1-RF      | N804348-S426   |
| M14      | 1.75mm | 110mm    | 80mm     | 32mm    | 11   | AB-1-ZW      | ★ W707362-S436 |
| M14      | 6mm    | 42.5mm   | 52.5mm   | 34.3mm  | 11   | AB-1-AY      | W707793-S436   |
| M12      | —      | 144mm    | 20.25mm  | 9.25mm  | 12   | AB-1-SH      | ★ W710389-S439 |
| M14      | 2mm    | 89.7mm   | 27.4mm   | 14mm    | 12   | AB-1-SG      | W709831-S426   |
| M14      | 2mm    | 92mm     | 34.5mm   | 16mm    | 12   | AB-1-SB      | N806798-S56    |
| M14      | 20mm   | 92.7mm   | 30.8mm   | 14.5mm  | 12   | AB-1-SF      | W707245-S426   |
| M20      | 39.5mm | 42.5mm   | —        | —       | 12   | AB-1-SF      | W707923-S426   |
| M10      | 1.5mm  | 25mm     | 83mm     | 35mm    | 13   | AB-1-FF      | N807216-S2     |
| M10      | 1.5mm  | —        | 95mm     | 35mm    | 13   | AB-1-FA      | W709275-S900   |
| M12      | 1.75mm | 35mm     | 64mm     | 28mm    | 13   | AB-1-WA      | N811627-S100   |
| M12      | 1.75mm | 45mm     | 82.1mm   | 25.0mm  | 13   | AB-1-WB      | W708821-S900   |
| M12      | 1.75mm | 67.5mm   | —        | 15.4mm  | 13   | AB-1-AU      | N807221-S2     |
| M12      | 1.75mm | 36.5mm   | 94.6mm   | 34.8mm  | 13   | AB-1-WE      | ★ N802299-S100 |
| M12      | 1.75mm | 92.2mm   | 75.2mm   | 33.5mm  | 13   | AB-1-WK      | N807385-S      |
| M12      | 1.75mm | 94.5mm   | 52.8mm   | 33.5mm  | 16   | AB-1-ZE      | ★ N806092-S53  |
| M14      | 2mm    | 35mm     | 77mm     | 28mm    | 16   | AB-1-ZL      | N806694-S100   |
| M14      | 2mm    | 35mm     | 65mm     | 30mm    | 16   | AB-1-ZN      | N807717-S      |
| M12      | 1.75mm | 30mm     | 45.5mm   | 30.0mm  | 18   | AB-1-PR      | W707315-S439   |
| M14      | 1.75mm | 52.5mm   | 28.5mm   | 15.5mm  | 18   | AB-1-P       | N808461-S60    |
| M16      | 2.0mm  | 160mm    | 71.325mm | 32.0mm  | 18   | AB-1-PA      | W709372-S426   |
| M14      | —      | 95mm     | 64.85mm  | 30.5mm  | 19   | AB-1-ZZ      | W707842-S426   |
| M12      | —      | —        | 33.62mm  | 24.7mm  | 19   | AB-1-ZY      | N811443-S436   |
| M6       | —      | 17mm     | 17.9mm   | 2.8mm   | 20   | AB-1-X       | W706784-S301   |
| M6       | —      | 17mm     | 17.9mm   | 2.8mm   | 20   | AB-1-X       | W706784-S439   |
| M6       | —      | 18.5mm   | 16.0mm   | 2.8mm   | 20   | AB-1-XA      | W710011-S437M  |
| M14      | —      | —        | 19.5mm   | 130mm   | 21   | AB-1-ZZ      | W706292-S309   |
| M12      | —      | 92mm     | 40.0mm   | 14.5mm  | 22   | AB-1-TB      | ★ W709983-S439 |
| M14      | —      | 95mm     | 28mm     | 5.9mm   | 22   | AB-1-T       | W710396-S439   |
| M8       | —      | 23mm     | 25mm     | 22.5mm  | 23   | AB-1-V       | ★ W710031-S439 |

\$ Adhesive

# Standard and Utility Parts Catalog

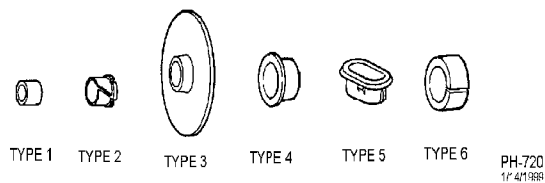
## PH-53 BOLT and CLIP ASSEMBLY



| DIAMETER | THREAD | LENGTH | A      | B    | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|--------|--------|--------|------|------|--------------|---------------|
| No. 10   | 24     | 63/64" | 27/32" | 1/4" | 1    | BB-643       | ★ 372719-S100 |

| Metric   |        |         |         |      |              |              |
|----------|--------|---------|---------|------|--------------|--------------|
| DIAMETER | LENGTH | A       | B       | TYPE | LOCATOR CODE | PART NUMBER  |
| M6       | 40mm   | 45.47mm | 12.95mm | 1    | AB-400-EA    | N808515-S426 |
| M10      | 33mm   | 44.7mm  | 29.9mm  | 1    | AB-400-E     | W707007-S436 |
| M10      | 33mm   | 44.7mm  | 29.9mm  | 1    | AB-400-E     | W707007-S439 |

## PH-720 BUSHING

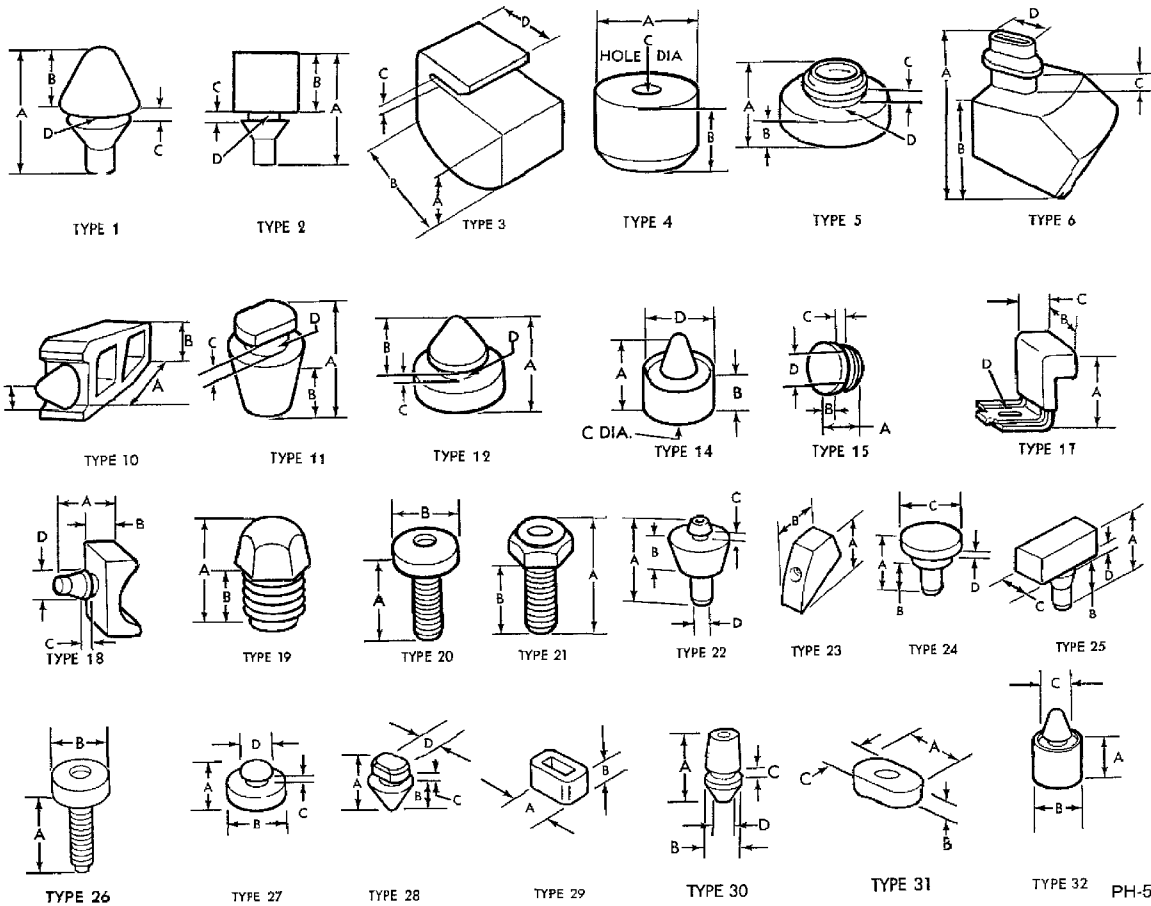


| INSIDE DIAMETER | LENGTH   | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER   |
|-----------------|----------|----------|------|--------------|---------------|
| 3/8"            | 11/16"   | Nylon    | 2    | II-210-E     | ★ 387898-S    |
| 5/8"            | 3/4"     | Plastic  | 3    | II-240-J     | ★ 387957-S100 |
| 5/16"           | 35/64"   | Nylon    | 4    | II-212-B     | ★ 389937-S    |
| 5/16"           | 21/32"   | Nylon    | 4    | II-212-C     | ★ 389938-S    |
| 5/16"           | 23/64"   | Nylon    | 4    | II-212-D     | ★ 389939-S    |
| 5/16"           | 19/64"   | Nylon    | 4    | II-212-E     | ★ 389940-S    |
| 5/16"           | 25/64"   | Nylon    | 4    | II-212-F     | ★ 389941-S    |
| 3/8"            | 23/64"   | Nylon    | 4    | II-212       | ★ 389933-S    |
| 3/8"            | 1/4"     | Nylon    | 4    | II-212-A     | ★ 389935-S    |
| 7/16"           | 1-29/64" | Nylon    | 4    | II-212-H     | ★ 389943-S    |
| 5/16"           | 15/32"   | Nylon    | 4    | II-212-J     | ★ 389944-S2   |
| 5/16"           | 7/16"    | Nylon    | 4    | II-212-K     | ★ 389945-S    |
| 17/64"          | 3/8"     | Steel    | 4    | II-212-L     | 390242-S      |
| 17/64"          | 3/8"     | Steel    | 4    | II-212-L     | ★ 390242-S36  |
| 5/8"            | 1-11/32" | Nylon    | 4    | II-240-N     | ★ 387399-S    |
| 1"              | 1-25/64" | Nylon    | 4    | II-212-G     | ★ 389942-S    |

| Metric  |         |         |   |          |                |
|---------|---------|---------|---|----------|----------------|
| M12.66  | 12.62mm | Nylon   | 1 | AI-8-E   | ★ N800181-S    |
| M10.10  | 10.76mm | Nylon   | 2 | AI-9-A   | ★ N802672-S    |
| M6      | 8.2mm   | Steel   | 3 | AI-7-A   | ★ N802048-S    |
| M6.0    | 9.mm    | Steel   | 3 | AI-7     | ★ N802497-S    |
| M6.6    | 5.7mm   | Steel   | 4 | AI-65-B  | ★ E890114-S71  |
| M9.6    | 7.5mm   | Steel   | 4 | AI-65-C  | ★ N803156-S35B |
| M13     | 4.5mm   | Nylon   | 4 | AI-65    | ★ N803418-S    |
| 12mm    | 11.6mm  | Steel   | 4 | AI-65-Z  | W701183-S300   |
| M15.6   | 14.5mm  | Nylon   | 4 | AI-65-A  | ★ N803515-S    |
| M15.9   | 7.0mm   | Nylon   | 4 | AI-65-AD | N806563-S      |
| M5.7    | 7.5mm   | Nylon   | 5 | AI-65-BA | ★ N806795-S    |
| M8.9    | 15.8mm  | Plastic | 5 | AI-65-BB | ★ N807573-S100 |
| 10.10mm | 12.2mm  | Plastic | 5 | AI-65-BC | ★ N805178-S    |
| M9.6    | 12.6mm  | Steel   | 6 | AI-65-D  | ★ W700077-S300 |

PH-55

BUMPER — RUBBER



| A        | B      | C     | D      | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|-------|--------|------|--------------|-------------|
| 11/32"   | 13/64" | 3/64" |        | 1    | CC-35        | ★376892-S   |
| 3/8"     | 1/4"   | 3/64" | 1/4"   | 1    | CC-22-B      | ★353907-S   |
| 45/64"   | 3/8"   | 1/32" | 5/16"  | 1    | CC-22-A      | 378359-S    |
| 3/4"     | 15/64" | 3/32" | 15/64" | 1    | CC-22        | ★370677-S   |
| 13/16"   | 9/32"  | 3/32" | 1/4"   | 1    | CC-9-A       | ★358159-A2S |
| 1-1/8"   | 5/8"   | 1/16" | 1/4"   | 1    | CC-44-G      | ★370374-S   |
| 45/64"   | 3/8"   | 3/32" | 3/16"  | 2    | CC-22-C      | 351139-S    |
| 45/64"   | 3/8"   | 3/64" | 1/4"   | 2    | CC-40        | 378399-S    |
| 11/16"   | 3/8"   | 3/32" | 3/16"  | 2    | CC-40-P      | ★383297-S   |
| 15/16"   | 1/2"   | 1/32" | —      | 2    | CC-40-R      | 380531-S    |
| 1-1/4"   | 55/64" | 3/64" | 19/64" | 2    | CC-27        | ★374218-S   |
| 25/64"   | 1/8"   | 3/64" | 3/16"  | 2    | CC-44        | 380369-S    |
| 7/16"    | 1/8"   | 3/32" | 3/16"  | 2    | CC-40-M      | ★377798-S   |
| 35/64"   | 5/32"  | 3/64" | 1/8"   | 2    | CC-36-A      | ★379919-S   |
| 51/64"   | 15/32" | 1/32" | 1/4"   | 2    | CC-34-A      | ★379162-S   |
| 29/32"   | 7/16"  | 5/64" | 1/4"   | 2    | CC-6-E       | ★391229-S   |
| 59/64"   | 15/32" | 1/16" | 1/4"   | 2    | CC-6         | 354860-S    |
| 1"       | 1/2"   | 5/64" | 1/4"   | 2    | CC-7         | 378744-S    |
| 1"       | 1/2"   | 5/64" | 13/32" | 2    | CC-7-C       | ★389466-S   |
| 1-13/64" | 3/4"   | 1/32" | 1/4"   | 2    | CC-7-B       | ★385760-S   |
| 5/8"     | 1/2"   | 5/32" |        | 4    | CC-18        | ★358953-S   |
| 1/2"     | 13/32" | 1/8"  | 1/4"   | 5    | CC-42-F      | ★388402-S   |
| 1-3/8"   | 1/4"   | 3/32" | 3/16"  | 8    | CC-43-G      | ★389180-S   |
| 15/32"   | 7/32"  | 1/16" | 7/32"  | 11   | CC-44-X      | ★384919-S   |
| 41/64"   | 15/32" | 5/64" | 1/4"   | 11   | CC-45        | ★380546-S   |
| 23/64"   | 1/4"   | 3/64" | 3/16"  | 12   | CC-43        | ★380004-S   |
| 31/64"   | 21/64" | 1/16" | 1/2"   | 12   | CC-43-B      | ★115300-ES  |
| 3/8"     | 17/64" | 5/64" | 3/16"  | 12   | CC-43-F      | ★383902-S   |

(continued)



## PH-55 BUMPER — RUBBER (Cont'd)

| Metric (Cont'd) |        |        |        |      |              |              |
|-----------------|--------|--------|--------|------|--------------|--------------|
| A               | B      | C      | D      | TYPE | LOCATOR CODE | PART NUMBER  |
| M34             | 22.5mm |        | 7mm    | 23   | AE-13        | ★N803320-S   |
| M35.7           | 42.2mm |        |        | 23   | AE-13-B      | N807055-S    |
| M40.3           | 39.6mm |        |        | 23   | AE-13-A      | N808093-S    |
| 12.0mm          | 3.75mm | 16.0mm | 6.0mm  | 24   | AC-1-A       | N808003-S    |
| M26             | 12mm   | 30mm   | 2.7mm  | 24   | AC-1         | ★N803308-S   |
| M30             | 11mm   | 20mm   | 4.0mm  | 24   | AC-2         | N807746-S    |
| 28mm            | 5mm    | 16mm   | 2mm    | 25   | AE-19-E      | W710323-S300 |
| M34             | 21mm   |        |        | 26   | AE-18-B      | ★N806686-S   |
| M45             | 21mm   |        |        | 26   | AE-18-A      | ★N803858-S   |
| M46             | 21mm   |        |        | 26   | AE-18        | ★N804461-S   |
| M4              | 9.1mm  | 3.1mm  | 8.3mm  | 27   | AE-22-D      | N811141-S    |
| M12.7           | 22.2mm | 2mm    | 10.3mm | 27   | AE-22-E      | ★N804590-S2  |
| M5.2            | 11.5mm | 5.2mm  | 2.5mm  | 28   | AE-24-N      | N806437-S    |
| M15.2           | 9.6mm  |        |        | 29   | AE-24-E      | ★N805510-S   |
| M37.3           | 49mm   | 19mm   | —      | 29   | AE-24-U      | N811275-S    |
| M48             | 33.3mm | —      | —      | 29   | AE-24-N      | ★N808483-S   |
| 20.5mm          | 13mm   | 7mm    | 4mm    | 30   | AE-24-SA     | W707547-S300 |
| M10.2           | 6.4mm  | 2.5mm  | 2.3mm  | 30   | AE-24-P      | N808970-S    |
| M11.3           | 8.0mm  | 3.5mm  | 4.0mm  | 30   | AE-24-Q      | N807314-S    |
| M13.7           | 8mm    | 1.2mm  | 5mm    | 30   | AE-24-K      | ★N807435-S   |
| M16.5           | 10.0mm | 1.0mm  | 4.5mm  | 30   | AE-24-R      | N811123-S    |
| M22             | 13mm   | 4mm    | 4mm    | 30   | AE-24-S      | N808343-S    |
| M25.9           | 13mm   | 2.25mm | 4mm    | 30   | AE-24-L      | N807895-S    |
| M19.5           | 10.0mm | 16.0mm |        | 31   | AE-24-M      | ★N806271-S   |
| M8.3            | 4.0mm  | 8.0mm  |        | 32   | AE-25-AD     | W704739-S300 |
| 15mm            | 12.7mm | 7mm    | —      | 32   | AE-25-AE     | W708031-S300 |
| M16             | 6.5mm  | 8.0mm  |        | 32   | AE-25-AC     | W701806-S300 |
| M23             | 16.0mm | 9.6mm  |        | 32   | AE-25-A      | W706064-S    |

## PH-57 CAP



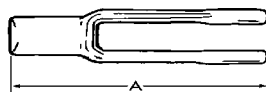
| INSIDE DIAMETER | OUTSIDE DIAMETER | TYPE | LOCATOR CODE | PART NUMBER |
|-----------------|------------------|------|--------------|-------------|
| 45/64"          | 25/32"           | 1    | DD-1         | ★358404-S   |
| 5/32"           | 5/16"            | 2    | DD-3         | ★380614-S   |
| 5/32"           | 5/16"            | 2    | DD-3-A       | 382444-S    |
| 7/32"           | 3/8"             | 2    | DD-2         | ★380613-S   |
| 1/4"            | 25/64"           | 2    | DD-2-A       | 382443-S    |
| 11/32"          | 27/64"           | 2    | DD-5-E       | 385353-S    |
| 23/64"          | 9/16"            | 2    | DD-2-B       | ★390670-S   |
| 1/8"            | 13/64"           | 3    | DD-5         | ★380015-S   |
| 5/32"           | 1/2"             | 3    | DD-4         | ★353538-S   |
| 3/32"           | 15/64"           | 4    | DD-6         | ★384497-S   |
| 5/16"           | 7/64"            | 4    | DD-7         | 389129-S    |

| Metric          |                  |      |              |              |
|-----------------|------------------|------|--------------|--------------|
| INSIDE DIAMETER | OUTSIDE DIAMETER | TYPE | LOCATOR CODE | PART NUMBER  |
| 7.9mm           | 11.5mm           | 1    | AB-3-AA      | N806628-S    |
| M9.2            | 13.2mm           | 1    | AD-3-J       | W701223-S300 |
| M15.2           | 20mm             | 1    | AD-3-G       | ★E890289-S   |
| M15.25          | 17.25mm          | 1    | AD-3-H       | N808152-S    |
| M18.5           | 20mm             | 1    | AD-3-E       | E890233-S100 |
| M19             | 31.5mm           | 1    | AD-3-F       | ★N802511-S   |
| M2.5            | 5.5mm            | 2    | AD-4-AA      | N805650-S    |
| M3              | 7mm              | 2    | AD-4-A       | N802355-S    |
| 5.94mm          | 7.04mm           | 2    | AD-4-B       | W710266-S300 |
| M8              | 12mm             | 2    | AD-4         | ★E890404-S   |
| M13             | 20mm             | 2    | AD-4-BB      | N808618-S    |
| M9              | 14.4mm           | 5    | AD-5         | ★N804632-S   |
| 10.50mm         | 30.00mm          | 5    | AD-5-AA      | W708656-S300 |

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CLEVIS — ADJUSTABLE



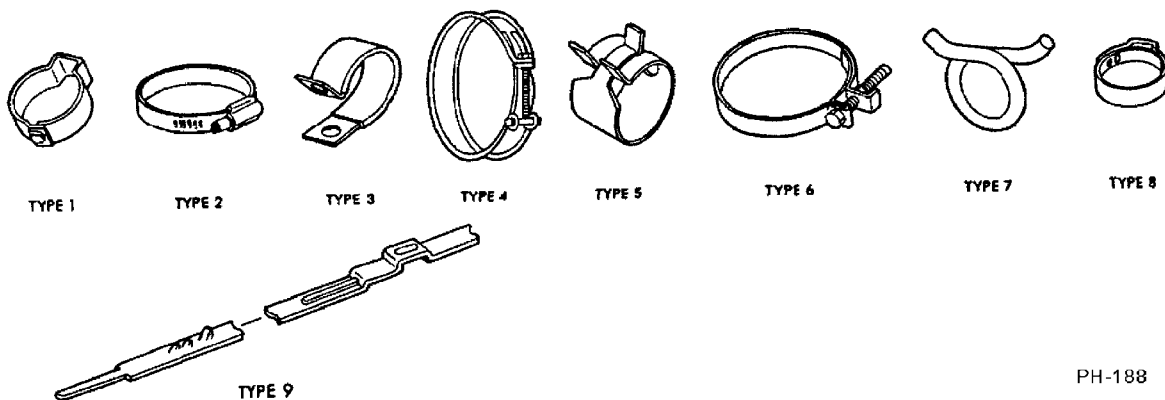
PH-51

| DIAMETER | THREAD | A        | LOCATOR CODE | PART NUMBER |
|----------|--------|----------|--------------|-------------|
| 3/8"     | 16     | 3-15/32" | FF-3-E       | ★ 383536-S8 |
| 3/8"     | 24     | 3-3/8"   | FF-4         | ★ 385634-S8 |
| 3/8"     | 24     | 3-3/8"   | FF-4         | 385634-S36  |
| 1/2"     | 20     | 2-1/2"   | FF-7         | ★ 373572-S8 |
| 1/2"     | 20     | 3"       | FF-8         | ★ 389862-S* |

\* Left Hand Thread

PH-188

CLAMP — HOSE



PH-188

| DIAMETER | WIDTH  | THICKNESS | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|--------|-----------|------|--------------|---------------|
| 7/16"    | 1/4"   | 1/32"     | 1    | EE-5         | ★ 377931-S8   |
| 1/2"     | 1/4"   | 1/32"     | 1    | EE-5-A       | ★ 390007-S    |
| 21/32"   | 1/4"   | 1/32"     | 1    | EE-5-B       | ★ 379278-S7-8 |
| 1-1/8"   | 9/32"  | 1/32"     | 1    | EE-5-G       | ★ 387700-S    |
| 1-3/4"   | 1/4"   | 1/32"     | 1    | EE-5-J       | ★ 389174-S8   |
| 2-7/16"  | 1/4"   | 1/32"     | 1    | EE-6-D       | ★ 385952-S8   |
| 2-13/16" | 1/4"   | 1/32"     | 1    | EE-6-H       | ★ 385953-S8   |
| 1-7/32"  | 1/2"   | Steel     | 2    | EE-5-K       | ★ 388497      |
| 7/16"    | 5/16"  | 1/32"     | 2    | EE-9-H       | 383520-S      |
| 7/16"    | 5/16"  | 1/32"     | 2    | EE-9-H       | 383520-S100   |
| 21/32"   | 1/2"   | 1/32"     | 2    | EE-9-J       | 376240-S1     |
| 21/32"   | 1/2"   | 1/32"     | 2    | EE-9-J       | 376240-S100   |
| 7/8"     | 1/3"   | 1/32"     | 2    | EE-9-K       | 383521-S100   |
| 4-1/2"   | 5/8"   | 1/32"     | 2    | EE-10        | ★ 378772-S    |
| 5-1/2"   | 1/2"   | 1/32"     | 2    | EE-10-A      | ★ 383988-S    |
| 6"       | 5/8"   | 1/32"     | 2    | EE-11        | 378774-S      |
| 6"       | 5/8"   | 1/32"     | 2    | EE-13        | ★ 381738-S    |
| 6-1/4"   | 5/8"   | 1/32"     | 2    | EE-12        | ★ 375130-S    |
| 6-5/8"   | 5/8"   | 1/32"     | 2    | EE-12-C      | 383735-S      |
| 8"       | 5/8"   | 1/32"     | 2    | EE-13-F      | 383779-S      |
| 1-3/16"  | 5/8"   | 1/32"     | 3    | EE-13-K      | ★ 374516-S100 |
| 1-1/16"  | 15/32" | 3/32"     | 4    | EE-16-C      | ★ 114865-ES8  |
| 2-5/16"  | 21/32" | 7/64"     | 4    | EE-16-A      | ★ 389504-S    |
| 21/64"   | 5/16"  | 1/32"     | 5    | EE-17        | 378756-S32    |
| 41/64"   | 3/8"   | 1/32"     | 5    | EE-17-L      | 382984-S100   |

(continued)

# Standard and Utility Parts Catalog

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PH-188

CLAMP — HOSE (Cont'd)

| DIAMETER | WIDTH  | THICKNESS | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|-----------|------|--------------|--------------|
| 13/32"   | 5/16"  | 1/32"     | 5    | EE-15        | ★382846-S32  |
| 15/32"   | 5/16"  | 1/32"     | 5    | EE-17-H      | 389252-S100  |
| 29/64"   | 3/8"   | 1/32"     | 5    | EE-17-A      | ★384260-S32  |
| 1/2"     | 5/16"  | 1/32"     | 5    | EE-17-E      | ★380882-S100 |
| 9/16"    | 5/16"  | 1/32"     | 5    | EE-17-J      | 389253-S100  |
| 5/8"     | 3/8"   | 1/32"     | 5    | EE-20        | ★385951-S2   |
| 1-5/32"  | 43/64" | 1/32"     | 6    | EE-20-A      | 389628-S100  |
| 1-1/2"   | 1/4"   | 1/32"     | 6    | EE-18        | ★384495-S    |
| 1-1/2"   | 1/2"   | Steel     | 6    | EE-21        | 383527-S     |
| 1-1/2"   | 1/2"   | Steel     | 6    | EE-22        | 383526-S     |
| 21/32"   | 21/64" | Steel     | 6    | EE-23        | 383521-S     |
| 13/16"   | 27/64" | Steel     | 6    | EE-24        | 388651-S     |
| 2-1/8"   | 1/4"   | 1/32"     | 6    | EE-19        | ★384496-S    |
| 3/4"     | 1/4"   | 1/32"     | 6    | EE-30        | 376428-S8    |
| 19/32"   | 1/4"   | 1/32"     | 8    | EE-31        | ★376545-S8   |

## Metric

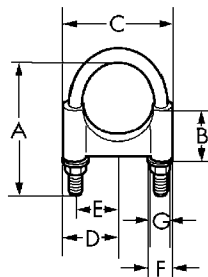
| DIAMETER | WIDTH   | THICKNESS | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|---------|-----------|------|--------------|---------------|
| M19      | 7mm     |           | 1    | AE-7-D       | N800408-S     |
| M26.3    | 7mm     | 8.2mm     | 1    | AE-7-G       | ★N801492-S    |
| 2.30mm   | .67mm   | .031mm    | 2    | AE-7-GA      | 383525-S      |
| M9       | 22mm    | 9mm       | 2    | AE-16-AC     | W707528-S300  |
| M45      | 10mm    |           | 2    | AE-16-A      | ★N807955-S    |
| M80      | 9mm     |           | 2    | AE-16        | ★E863252-S100 |
| M101.6   | 12.57mm | .53mm     | 2    | AE-16-AB     | W705949-S300  |
| 40mm     | 9mm     | —         | 3    | AE-16-A      | W525936-S300  |
| 45mm     | 9mm     | —         | 3    | AE-16-B      | W525937-S300  |
| M9.6     | 8.0mm   | 3.2mm     | 5    | AE-16-AD     | W700862-S301  |
| M12.3    | 9.8mm   | 1.0mm     | 5    | AE-16-AC     | N808238-S     |
| 16mm     | 20.0mm  | 12.0mm    | 5    | AE-16-B      | W709941-S301  |
| M18.25   | 8mm     |           | 5    | AE-17        | ★E863098-S100 |
| M24      | 9.5mm   | —         | 5    | AE-16-C      | N811032-S100  |
| 9.5mm    | .505mm  | .022mm    | 6    | AE-7-AA      | 391218-S100   |
| M15      | 9mm     | .65mm     | 6    | AE-7-A       | ★N803325-S36  |
| M19      | 10mm    | 1mm       | 6    | AE-7         | ★E863017-S72  |
| M21      | 9.8mm   |           | 6    | AE-11        | ★E863021-S71  |
| 35/55mm  | 16.5mm  | 0.8mm     | 6    | AE-20-E      | W710043-S900  |
| 50/70mm  | 16.5mm  | 0.8mm     | 6    | AE-20-F      | W710044-S900  |
| 60mm     | 14mm    | 0.75mm    | 6    | AE-20-GA     | W525939-S300  |
| M6.4     | 1.6mm   | 1.6mm     | 7    | AE-20        | ★E862106-S100 |
| M14.6    | 6.3mm   | 1.4mm     | 7    | AE-20-M      | ★E863058-S102 |
| 16mm     | 2.5mm   | 1.5mm     | 7    | AE-20-B      | W706142-S303  |
| 22mm     | —       | —         | 7    | AE-20-C      | W527207-S303  |
| 27mm     | —       | 1.60mm    | 7    | AE-20-D      | W525862-S301  |
| M31.75   | 3.10mm  | 3.10mm    | 7    | AE-20-A      | ★N801866-S36  |
| 34mm     | —       | 1.60mm    | 7    | AE-20-EA     | W525880-S301  |
| 34mm     | —       | 1.70mm    | 7    | AE-20-MA     | W527366-S301  |
| M17      | 7mm     | 3.2mm     | 8    | AE-32-AZ     | W701347-S     |
| 26mm     | —       | 12mm      | 8    | AE-30-FA     | W527161-S301  |
| 26mm     | —       | 3.0mm     | 8    | AE-30-FB     | N803984-S100  |
| M32      | 7mm     | 1mm       | 8    | AE-30-F      | ★N801786-S    |
| M32.7    | 7mm     | 1mm       | 8    | AE-30-N      | ★E863118-S100 |
| M33      | 7mm     | 1mm       | 8    | AE-30-NA     | ★E863125-S100 |
| M72      | 7mm     | 1mm       | 8    | AE-30-R      | ★E863119-S100 |
| M90      | 9mm     | 1mm       | 8    | AE-30-K      | ★N801787-S    |
| M91.5    | 89mm    | 9mm       | 8    | AE-32-A      | W702657-S300  |
| M363     | 7mm     | .15mm     | 9    | AE-31        | ★N805047-S    |
| M10      | 69.4mm  | —         | 10   | AE-32        | N807703-S     |



# Standard and Utility Parts Catalog

PH-189

WASHER — LOCK — INTERNAL TOOTH

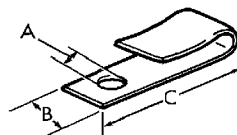
PH-189  
12/01/2003

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | NO. TEETH INSIDE | LOCATOR CODE | PART NUMBER  |
|-----------|-----------------|------------------|-----------|------------------|--------------|--------------|
| M5        | 5.1mm           | 9mm              | 1mm       | Steel            | AX-295       | E630356-S71  |
| M5        | 5.1mm           | 9mm              | 1mm       | Steel            | AX-295       | ★E630356-S74 |
| M10       | 11.5mm          | 25mm             | 10mm      | Aluminum         | AX-295-A     | W710432-S300 |

| NOMINAL SIZE | CLAMP DIAMETER | A       | B       | C      | D       | E      | F      | G       | LOCATOR CODE | PART NUMBER  |
|--------------|----------------|---------|---------|--------|---------|--------|--------|---------|--------------|--------------|
| M10          | 55             | 94.00mm | 27.95mm | 83.3mm | 41.65mm | 63.3mm | 19.0mm | 17.32mm | WK-1         | W710145-S306 |

PH-63

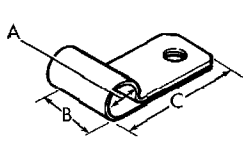
CLIP — WIRING — “J” TYPE



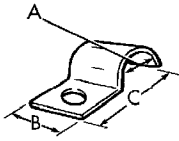
PH63

| A      | B    | C        | LOCATOR CODE | PART NUMBER   |
|--------|------|----------|--------------|---------------|
| 9/32"  | 5/8" | 4-5/8"   | GG-166-D     | ★384742-S100☆ |
| 11/32" | 1/2" | 1-13/32" | GG-170       | ★352974-S100☆ |
| 11/32" | 5/8" | 1-13/16" | GG-172       | ★358350-S☆    |
| 19/32" | 1"   | 2"       | GG-175-E     | ★375232-S100☆ |

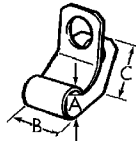
## PH-62(A) CLIP — TUBE and CABLE



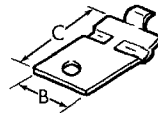
TYPE 1



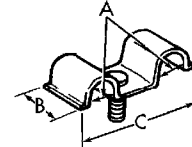
TYPE 2



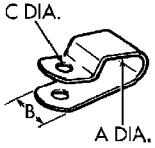
TYPE 3



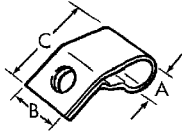
TYPE 5



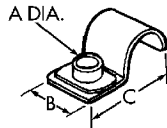
TYPE 6



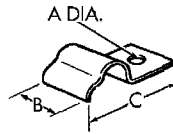
TYPE 9



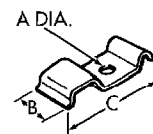
TYPE 10



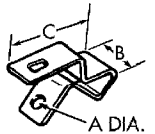
TYPE 13



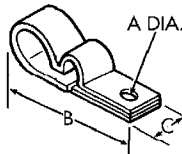
TYPE 19



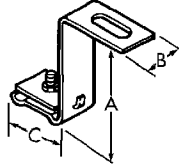
TYPE 21



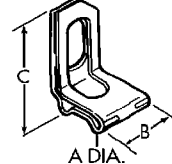
TYPE 22



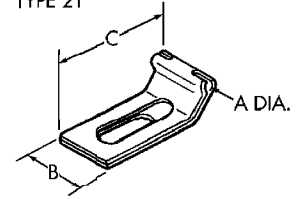
TYPE 23



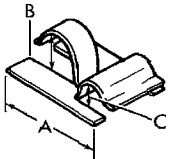
TYPE 24



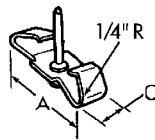
TYPE 25



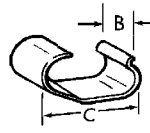
TYPE 26



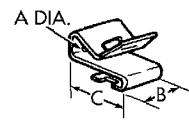
TYPE 27



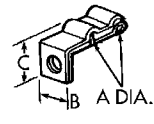
TYPE 28



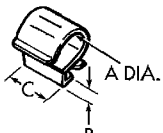
TYPE 29



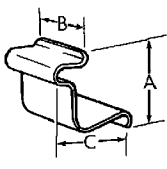
TYPE 31



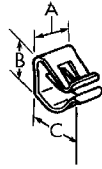
TYPE 32



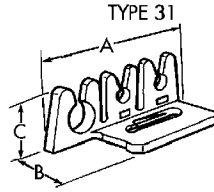
TYPE 33



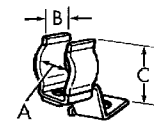
TYPE 34



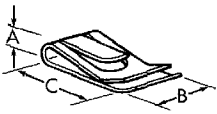
TYPE 35



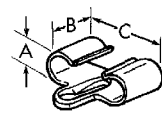
TYPE 38



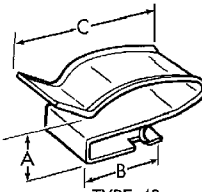
TYPE 40



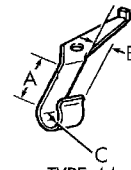
TYPE 41



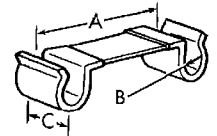
TYPE 42



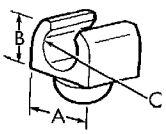
TYPE 43



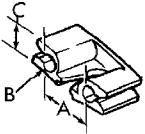
TYPE 44



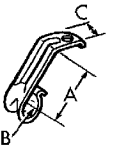
TYPE 45



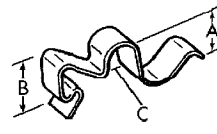
TYPE 46



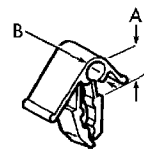
TYPE 47



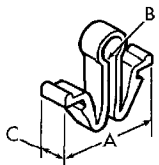
TYPE 48



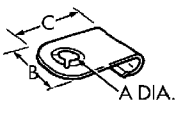
TYPE 49



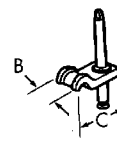
TYPE 50



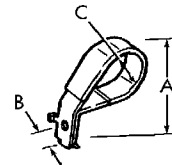
TYPE 51



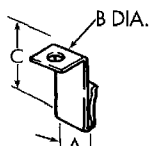
TYPE 52



TYPE 53

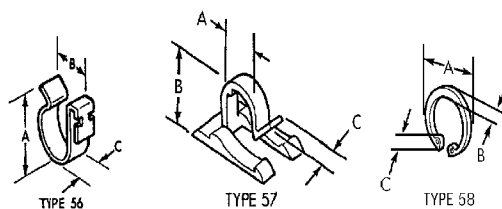


TYPE 54



TYPE 55

## PH-62(B) CLIP — TUBE and CABLE (Cont'd)

PH-62(B)  
12/22/2000

| A       | B        | C        | TYPE | LOCATOR CODE | PART NUMBER   |
|---------|----------|----------|------|--------------|---------------|
| 7/32"   | 1/2"     | 1-1/8"   | 1    | GG-270       | ★377774-S     |
| 3/8"    | 7/16"    | 1-3/16"  | 1    | GG-154-F     | 377669-S      |
| 1/4"    | 5/8"     | 3/4"     | 1    | GG-152-D     | ★357949-S     |
| 27/64"  | 3/8"     | 27/32"   | 1    | GG-144       | ★359548-S100☆ |
| 1/2"    | 3/4"     | 1-23/32" | 1    | GG-143-AA    | ★351635-S8    |
| 1/2"    | 5/8"     | 1-11/16" | 1    | GG-147-M     | ★376188-SΔ    |
| 9/16"   | 3/4"     | 1-13/32" | 1    | GG-148       | ★352204-S100☆ |
| 19/32"  | 7/8"     | 1-17/32" | 1    | GG-150       | ★351648-S32   |
| 5/8"    | 5/8"     | 1-1/8"   | 1    | GG-152-A     | 357946-S100   |
| 5/8"    | 7/8"     | 1-1/2"   | 1    | GG-152-B     | ★371090-S2    |
| 5/8"    | 1"       | 1-1/2"   | 1    | GG-152-C     | 384568-S100   |
| 5/8"    | 1-1/4"   | 2-1/2"   | 1    | GG-152-E     | ★384986-S     |
| 21/32"  | 5/8"     | 2-3/4"   | 1    | GG-151-A     | ★375086-S     |
| 3/4"    | 5/8"     | 2-1/16"  | 1    | GG-151       | ★376219-SΔ    |
| 3/4"    | 1-17/32" | 3/4"     | 1    | GG-151-E     | ★378407-S8    |
| 1"      | 5/8"     | 1-7/8"   | 1    | GG-150-H     | ★378674-SΔ    |
| 3/32"   | 1"       | 1-21/64" | 2    | GG-154-AA    | ★387293-S2    |
| 13/64"  | 5/8"     | 1"       | 2    | GG-154-B     | ★372323-S     |
| 3/8"    | 1/2"     | 45/64"   | 2    | GG-154       | ★357044-S8    |
| 31/64"  | 3/4"     | 1"       | 3    | GG-163-YT    | ★387438-S8    |
| 3/4"    | 5/8"     |          | 3    | GG-163-C     | ★357618-S8    |
|         | 5/8"     | 1-1/16"  | 5    | GG-162-A     | ★378897-S7-8  |
| 1/8"    | 5/8"     | 1/8"     | 5    | GG-162-B     | ★383230-S     |
| 13/32"  | 3/4"     | 1-13/16" | 6    | GG-163-A     | ★381837-S2    |
| 3/16"   | 5/8"     | 11/32"   | 9    | GG-163-HH    | ★384028-S100  |
| 9/32"   | 5/8"     | 11/32"   | 9    | GG-163-HG    | ★385733-S2    |
| 9/32"   | 5/8"     | 9/32"    | 9    | GG-163-HE    | ★389563-S100  |
| 23/64"  | 5/8"     | 7/32"    | 9    | GG-163-HF    | ★374494-S100  |
| 3/8"    | 3/4"     | 13/32"   | 9    | GG-163-HI    | ★389674-S2    |
| 11/32"  | 3/4"     | 2-1/4"   | 21   | GG-163-YP    | ★383697-S2    |
| 11/32"  | 41/64"   | 1-9/64"  | 22   | GG-163-YS    | ★383908-S2    |
| 23/64"  | 5/8"     | 1-1/8"   | 22   | GG-164-A     | ★389962-S2    |
| 23/64"  | 1"       | 1-1/2"   | 22   | GG-163-YE    | ★389852-S     |
| 27/64"  | 7/8"     | 1-15/32" | 22   | GG-164-B     | ★389969-S100  |
| 13/32"  | 7/8"     | 1-1/2"   | 22   | GG-163-YG    | ★389891-S     |
| 13/32"  | 7/8"     | 2-1/8"   | 22   | GG-163-ZB    | ★389900-S2    |
| 3/8"    | 2-5/16"  | 3/4"     | 23   | GG-163-YR    | ★389197-S     |
| 7/32"   | 1-57/64" | 3/4"     | 23   | GG-163-YA    | ★390495-S100  |
| 11/32"  | 2"       | 3/4"     | 23   | GG-163-YY    | ★389262-S100  |
| 13/32"  | 2-3/8"   | 7/8"     | 23   | GG-163-YL    | ★383789-S     |
| 17/32"  | 2-29/32" | 1/2"     | 23   | GG-163-YN    | ★387191-S32   |
| 2-5/32" | 3/4"     | 1-1/4"   | 24   | GG-163-YX    | ★384492-S     |
| 1/4"    | 1"       | 1-7/8"   | 25   | GG-163-YZ    | ★384466-S     |
| 1/4"    | 1"       | 2-7/32"  | 26   | GG-163-ZA    | ★384479-S     |
| 59/64"  | 3/8"     | 1/4"     | 27   | GG-163-ZE    | ★384915-S2    |
| 1-1/16" | (2) 1/4" | 5/8"     | 28   | GG-408-E     | ★387946-S2    |
|         | 1/2"     | 31/32"   | 29   | GG-415-E     | ★388149-S     |
|         | 3/4"     | 53/64"   | 31   | GG-19        | ★389348-S32B  |
| 7/32"   | 3/4"     | 1"       | 32   | GG-163-ZG    | ★385197-S2    |
| 27/64"  | 3/4"     | 7/8"     | 32   | GG-163-ZJ    | ★389053-S36   |
| 1/4"    | 1/8"     | 1/2"     | 33   | GG-163-ZH    | ★386184-S32D  |
| 17/32"  | 1/8"     | 1/2"     | 33   | AG-20        | ★118577-ES2   |
| 1-5/64" | 3/4"     | 1-19/32" | 40   | GG-394       | ★386264-S2    |

# Standard and Utility Parts Catalog

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## PH-62(B) CLIP — TUBE and CABLE (Cont'd)

| A        | B       | C        | TYPE | LOCATOR CODE | PART NUMBER    |
|----------|---------|----------|------|--------------|----------------|
| 1-5/64"  | 11/32"  | 15/32"   | 44   | GG-178-E     | ★387225-S2     |
| 1-27/64" | 15/64"  | 1/2"     | 45   | GG-404-G     | ★386915-S      |
| 7/16"    | 5/16"   | 3/8"     | 51   | GG-338-D     | 386132-S       |
| 5/8"     | 1-3/8"  | 1-11/16" | 52   | GG-426-E     | ★389044-S      |
| 3/4"     | 13/32"  | 1-1/2"   | 55   | GG-338-E     | ★389277-S2     |
| 19/32"   | 13/32"  | 1/2"     | 56   | GG-435       | ★120212-ES32   |
| Metric   |         |          |      |              |                |
| M4.7     | 15.7mm  | 20.8mm   | 1    | AG-17-E      | ★N802617-S100  |
| M4.8     | 18mm    | 27mm     | 1    | AG-17-K      | ★N804381-S100  |
| M4.8x6.3 | 19mm    | 30.5mm   | 1    | AG-17-J      | ★N804598-S100  |
| M7.5     | 18mm    | 27mm     | 1    | AG-17        | ★N802101-S2    |
| M7.5     | 18mm    | 27mm     | 1    | AG-17C       | ★N802101-S100  |
| M7.9     | 15.7mm  | 22.4mm   | 1    | AB-17-D      | ★N802614-S100  |
| M8       | 15mm    | 28.75mm  | 1    | AG-17-G      | ★E865431-S     |
| M9       | 20mm    | 22mm     | 1    | AG-17A       | ★N802501-S2    |
| M9       | 20mm    | 29mm     | 1    | AG-17B       | ★N802502-S2    |
| M9.6     | 15.7mm  | 30.7mm   | 1    | AG-17-F      | ★N803856-S100  |
| M6.5     | 16mm    | 27mm     | 3    | AG-16-B      | ★U801026-S36   |
| M8       | 25mm    | 31mm     | 3    | AG-16        | ★N800696-S2    |
| M10      | 16mm    | 20mm     | 3    | AG-16-A      | ★N800922-S36   |
| M8       | 18mm    | 8mm      | 9    | AG-50        | ★E864150-S100  |
| M15      | 20mm    | 68mm     | 19   | AG-46        | ★E864632-S71   |
| M10.5    | 94mm    | 19.7mm   | 23   | AG-42-E      | ★U801174-S100  |
| M6.3     | 12.7mm  | 31.2mm   | 29   | AG-24-A      | ★N802623-S2    |
| M8       | 12.7mm  | 14.22mm  | 29   | AG-24        | ★N803280-S36   |
|          | 13mm    | 33mm     | 31   | AG-15-A      | ★N803638-S     |
|          | 12.7mm  | 16.3mm   | 31   | AG-14-E      | ★112715-ES2    |
| M3       | 9.0mm   | 12.7mm   | 31   | AG-15        | ★E864288-S     |
| M9.0     | 15mm    | 29mm     | 31   | AG-15-B      | W702150-S305   |
| M7       | 18mm    | 12.7mm   | 33   | AG-51-F      | ★N800741-S2    |
| M8       | 4.5mm   | 13mm     | 33   | AG-51        | ★E864638-S81   |
| M32      | 15mm    | 27mm     | 34   | AG-25        | ★E864439-S81   |
| 7.77mm   | 8.12mm  | 9.40mm   | 35   | AG-26-B      | W708477-S301   |
| M1.9     | 10.3mm  | 11.5mm   | 35   | AG-26-A      | N807582-S301   |
| M12      | 14.5mm  | 19mm     | 35   | AG-26        | ★E864227-S71   |
| M38      | 20mm    | 17mm     | 38   | AG-27-EF     | ★E864402-S     |
| M6.2     |         |          | 40   | AG-87-E      | ★N801502-S2    |
| M13      | 13mm    | 22.3mm   | 40   | AG-87-F      | ★E864655-S76   |
| M11      | 22.95mm | 22.85mm  | 41   | AG-35-AZ     | W706678-S301   |
| M23      | 16mm    | 8mm      | 41   | AG-35        | ★E864118-S     |
| M23      | 16mm    | 8mm      | 41   | AG-35-A      | ★E864118-S76   |
| M5.9     | 9.5mm   | 10.2mm   | 42   | AG-40-A      | ★E865415-S81   |
| M8       | 10mm    | 30mm     | 42   | AG-40        | ★E864486-S     |
| M1.1     | 8.1mm   | 10.6mm   | 43   | AG-16-C      | ★W703327-S301  |
| M3.2     | 7.9mm   | 17.5mm   | 43   | AG-56        | ★E864403-S76   |
| M4.1     | 17.7mm  | 16.7mm   | 43   | AG-17-N      | W704207-S301   |
| M9.5     | 10.5mm  | 16mm     | 45   | AG-16-C      | W702164-S300   |
| M36      | 11mm    | 31.5mm   | 45   | AG-54-E      | ★N800962-S     |
| M12      | 3.5mm   | 7.5mm    | 46   | AG-57-G      | ★E866101-S     |
| M12.8    | 4.8mm   | 7.2mm    | 47   | AG-63        | ★E864649-S     |
| M63.5    | 19.5mm  | 18mm     | 48   | AG-67        | ★E864826-S81   |
| M7.7     | 11.3mm  | 2.2mm    | 49   | AG-71-E      | ★E864153-S     |
| M9.9     | 7.9mm   |          | 50   | AG-73-E      | ★E864880-S     |
| M8       | 2.2mm   | 8.8mm    | 51   | AG-78-F      | ★W702322-S301  |
| M20      | 7.3mm   | 6.9mm    | 51   | AG-78-E      | ★E864886-S     |
| M112     | 2.3mm   | 1.5mm    | 51   | AG-78-ZZ     | ★W707749-S4241 |
| M5       | 15mm    | 26mm     | 53   | AG-89-E      | ★N801639-S2    |
| M5       | 37mm    | 15mm     | 54   | AG-90-E      | ★N801640-S2    |
| M9       | .502mm  | 1.13mm   | 54   | AG-90-AA     | ★361959-S304   |
| M60.5    | 19mm    | 23mm     | 55   | AG-90-F      | ★N801657-S100  |
| M10.7    | 6.1mm   | 15mm     | 56   | AG-128       | ★E865422-S81   |

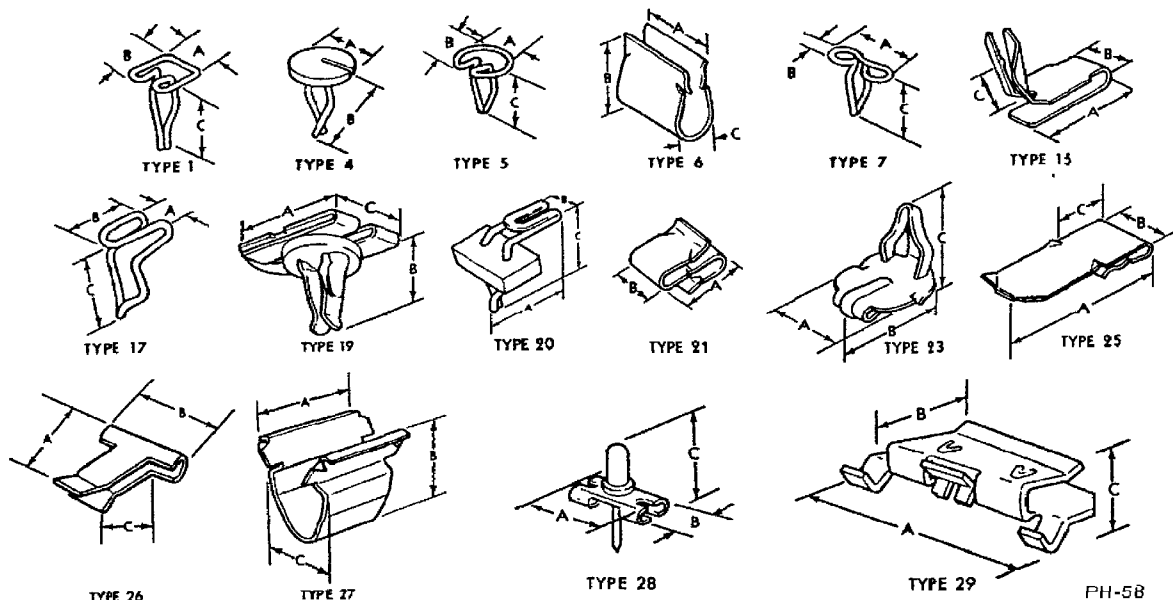
(continued)

# Standard and Utility Parts Catalog

## PH-62(B) CLIP — TUBE and CABLE (Cont'd)

| Metric (cont'd) |        |        |      |              |                 |
|-----------------|--------|--------|------|--------------|-----------------|
| A               | B      | C      | TYPE | LOCATOR CODE | PART NUMBER     |
| M15.5           | 14.0mm | 15.0mm | 56   | AG-128-C     | W700711-S300    |
| M20             | 13.5mm | 15mm   | 56   | AG-128-A     | ★ E864306-S81   |
| M11.7           | 11.2mm | 6.4mm  | 57   | AG-168-E     | N804606-S100    |
| M5.3            | 1.05mm | 19mm   | 58   | AG-35-AQ     | W706715         |
| M40.54          | 3.38mm | 4.57mm | 58   | AG-168-A     | W704670-S       |
| M58.20          | 4.7mm  | 5.5mm  | 58   | AG-35-AW     | ★ W7034747-S300 |

## PH-58 CLIP — TRIM and MOULDING



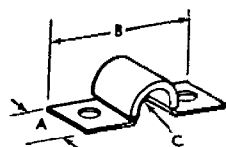
| A       | B       | C       | TYPE | LOCATOR CODE | PART NUMBER   |
|---------|---------|---------|------|--------------|---------------|
| 5/16"   | 9/16"   | 1-1/8"  | 1    | GG-99-B      | ★ 371520-S2   |
| 13/32"  | 23/64"  | 13/32"  | 1    | GG-99-G      | ★ 386642-S100 |
| 11/16"  | 1/2"    | 19/32"  | 1    | GG-99-A      | ★ 379218-S3   |
| 11/16"  | 1/2"    | 13/16"  | 1    | GG-100-A     | ★ 379852-S3   |
| 11/16"  | 1/2"    | 7/8"    | 1    | GG-100-B     | ★ 381975-S2   |
| 1-5/64" | 1"      | 1-3/64" | 1    | GG-98-A      | ★ 381794-S2   |
| 35/64"  | 25/32"  |         | 4    | GG-116       | ★ 353129-S12  |
| 1/2"    | 7/16"   | 1/4"    | 6    | GG-121       | ★ 376330-S2   |
| 5/8"    | 11/16"  | 5/16"   | 6    | GG-121-A     | ★ 371141-S32  |
| 7/16"   | 9/16"   | 61/64"  | 7    | GG-122-A     | ★ 351775-S100 |
| 5/16"   | 43/64"  | 7/8"    | 17   | GG-139-UC    | ★ 380394-S2   |
| 5/16"   | 43/64"  | 1-1/4"  | 17   | GG-136       | ★ 357546-S3   |
| 5/16"   | 11/16"  | 1-3/8"  | 17   | GG-136-D     | ★ 386767-S100 |
| 21/64"  | 43/64"  | 1-3/64" | 17   | GG-138-A     | ★ 371905-S2   |
| 27/64"  | 43/64"  | 1-3/64" | 17   | GG-137       | ★ 358575-S3   |
| 53/64"  | 1/2"    | 1/2"    | 19   | GG-139-C     | ★ 378586-S32  |
| 39/64"  | 5/16"   | 1-9/64" | 20   | GG-139-D     | ★ 371904-S100 |
| 5/8"    | 5/16"   | 1-3/16" | 20   | GG-139-DD    | ★ 384926-S100 |
| 5/8"    | 1/2"    | 1-9/64" | 20   | GG-139-DB    | 383033-S100   |
| 5/8"    | 1-9/64" | 5/8"    | 20   | GG-139-DC    | ★ 383033-S3   |
| 7/8"    | 5/16"   | 1-9/64" | 20   | GG-139-E     | ★ 380552-S102 |
| 1/2"    | 5/8"    |         | 21   | GG-139-J     | ★ 381912-S2   |
| 7/8"    | 5/8"    |         | 21   | GG-139-K     | ★ 384151-S32B |
| 17/32"  | 1/2"    |         | 21   | GG-139-H     | ★ 381672-S2   |

PH-58

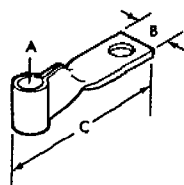
CLIP — TRIM and MOULDING (Cont'd)

| Metric |         |         |      |              |                |
|--------|---------|---------|------|--------------|----------------|
| A      | B       | C       | TYPE | LOCATOR CODE | PART NUMBER    |
| 1/2"   | 43/64"  | 1-9/64" | 23   | GG-232-J     | ★ 375553-S100  |
| 19/32" | 11/16"  | 13/16"  | 23   | GG-139-L     | ★ 381896-S2    |
| 53/64" | 3/4"    | 47/64"  | 26   | GG-139-W     | ★ 358467-S2    |
| M9     | 11.20mm | 5.18mm  | 6    | AG-58-C      | W704733-S424   |
| M20    | 20mm    | 6.35mm  | 6    | AG-58-D      | ★ N805886-S55  |
| M12.2  | 7mm     | 2.3mm   | 6    | AG-58-E      | ★ N808016-S32B |
| M12.7  | 6mm     | 4mm     | 6    | AG-58-G      | ★ E864831-S81  |
| M12.7  | 8.7mm   | 6.2mm   | 6    | AG-58-B      | ★ E864626-S81  |
| M21    | 20mm    | 5mm     | 6    | AG-58        | ★ E864468-S81  |
| M25    | 10mm    | 12mm    | 6    | AG-58-A      | ★ N803836-S2   |
| M12.5  | 11mm    |         | 21   | AG-61-M      | W703265-S301   |
| M16.5  | 15mm    | —       | 21   | AG-61-D      | W701322-S305   |
| M35    | 30mm    |         | 21   | AG-61-E      | ★ E824120-S76  |
| M14.8  | 20.0mm  | —       | 21   | AG-61-E      | W703546-S301   |
| M22.5  | 6mm     | 6mm     | 25   | AG-59        | ★ E864443-S81  |
| M7.1   | 12.7mm  | 8mm     | 27   | AG-117-A     | E865225-S81    |
| M16    | 13mm    | 11mm    | 27   | AG-117       | ★ E865041-S81  |
| M14    | 13mm    | 7.2mm   | 28   | AG-150       | ★ E865280-S    |
| M33    | 8.7mm   | 6.3mm   | 29   | AG-152       | ★ E865668-S100 |

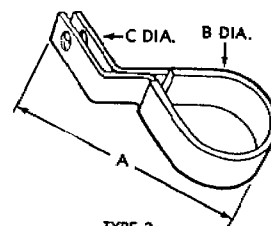
## PH-54(A) CLIP — SPECIAL — EXC. METRIC



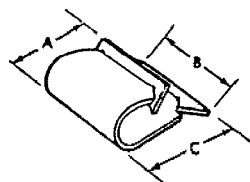
TYPE 1



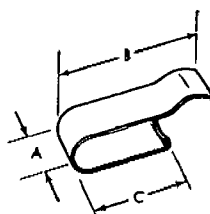
TYPE 2



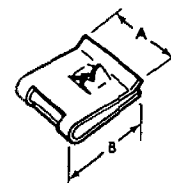
TYPE 3



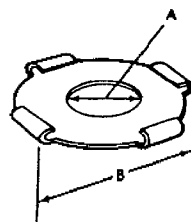
TYPE 4



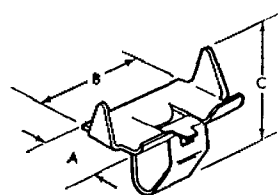
TYPE 5



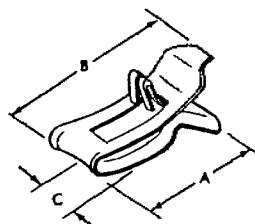
TYPE 6



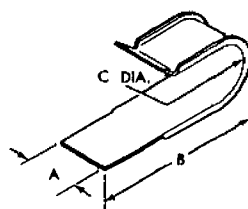
TYPE 7



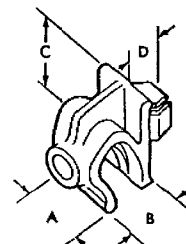
TYPE 8



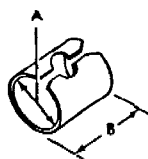
TYPE 9



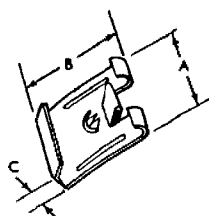
TYPE 10



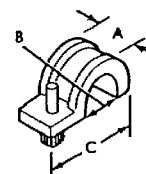
TYPE 11



TYPE 12



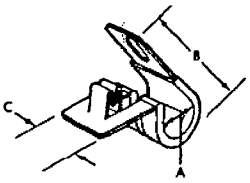
TYPE 13



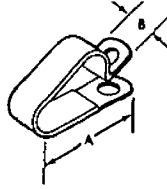
TYPE 14

PH-54(A)

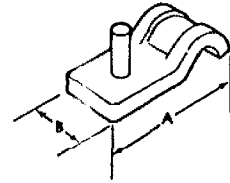
## PH-54(B) CLIP — SPECIAL — EXC. METRIC (Cont'd)



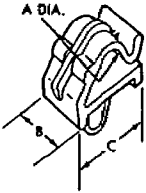
TYPE 15



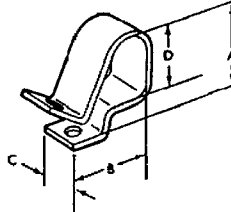
TYPE 16



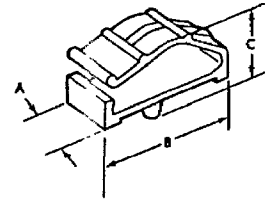
TYPE 17



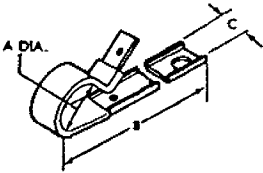
TYPE 18



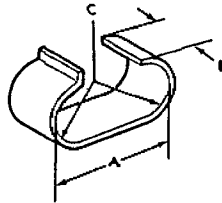
TYPE 19



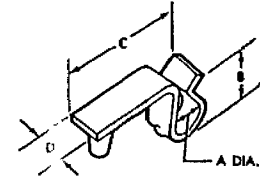
TYPE 20



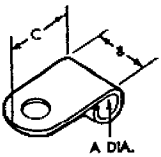
TYPE 21



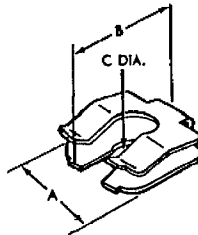
TYPE 22



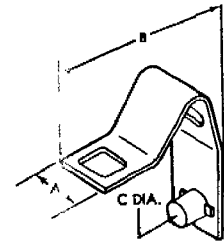
TYPE 23



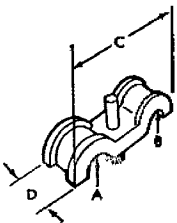
TYPE 24



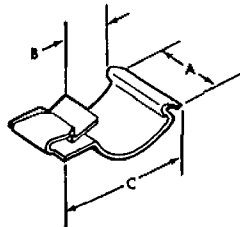
TYPE 25



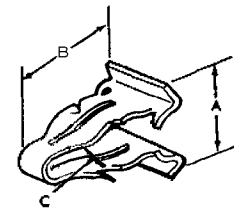
TYPE 26



TYPE 27



TYPE 28



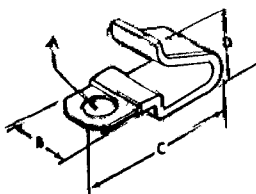
TYPE 29

PH-54(B)

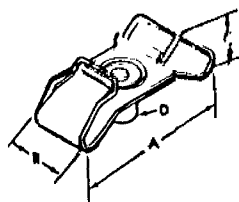
(continued)



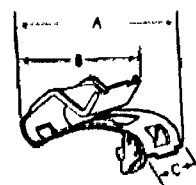
## PH-54(C) CLIP — SPECIAL — EXC. METRIC (Cont'd)



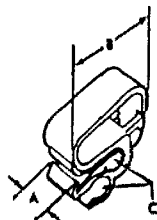
TYPE 30



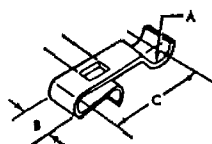
TYPE 31



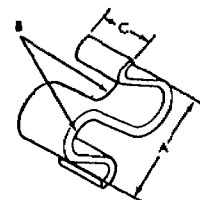
TYPE 32



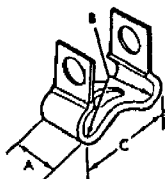
TYPE 33



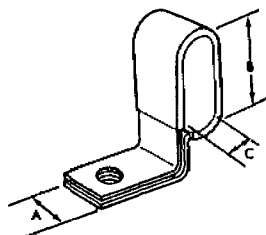
TYPE 34



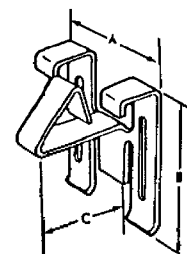
TYPE 35



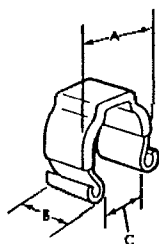
TYPE 36



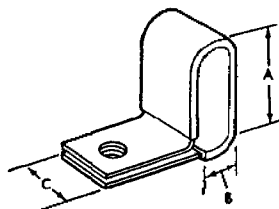
TYPE 37



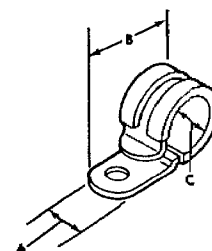
TYPE 38



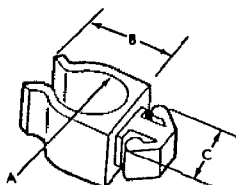
TYPE 39



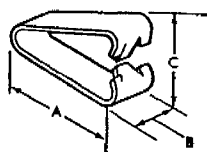
TYPE 40



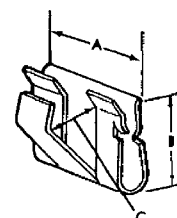
TYPE 41



TYPE 42



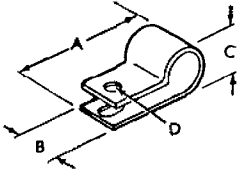
TYPE 43



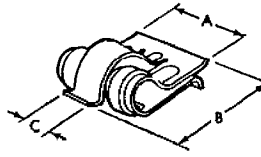
TYPE 44

PH-54(C)

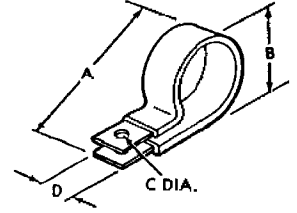
## PH-54(D) CLIP — SPECIAL — EXC. METRIC (Cont'd)



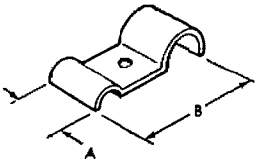
TYPE 45



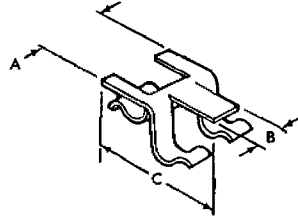
TYPE 46



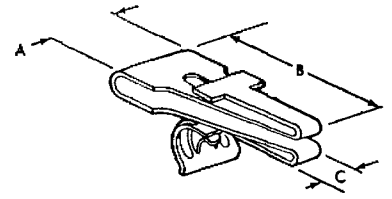
TYPE 47



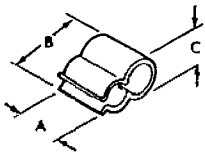
TYPE 48



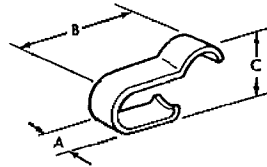
TYPE 49



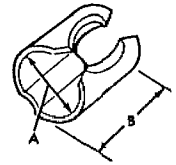
TYPE 50



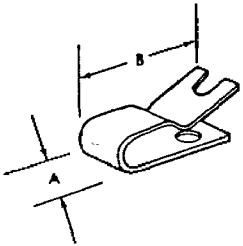
TYPE 51



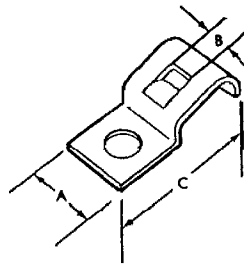
TYPE 52



TYPE 53



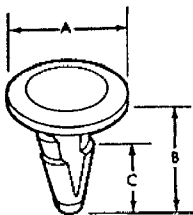
TYPE 54



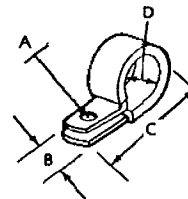
TYPE 55



TYPE 56



TYPE 57

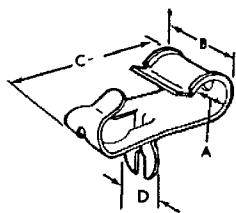


TYPE 58

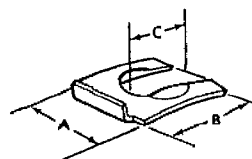
PH-54(D)

(continued)

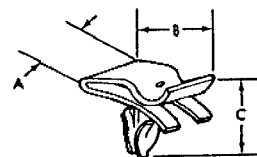
## PH-54(E) CLIP — SPECIAL — EXC. METRIC (Cont'd)



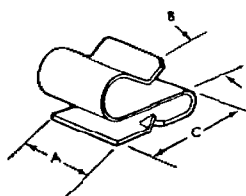
TYPE 59



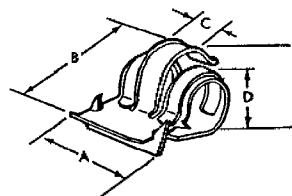
TYPE 60



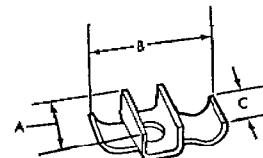
TYPE 61



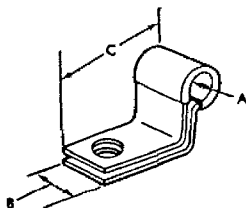
TYPE 62



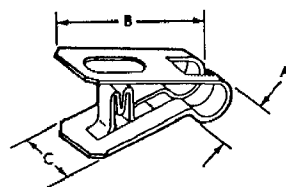
TYPE 63



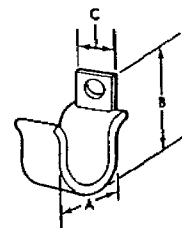
TYPE 64



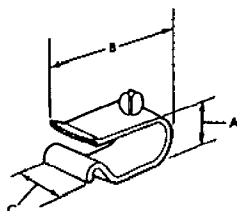
TYPE 65



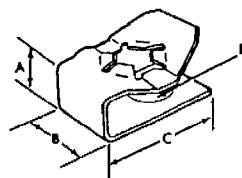
TYPE 66



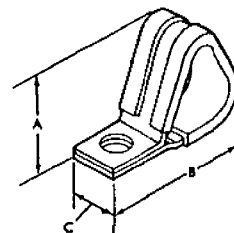
TYPE 67



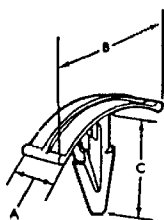
TYPE 68



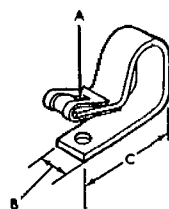
TYPE 69



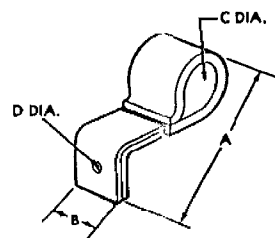
TYPE 70



TYPE 71



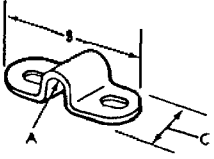
TYPE 72



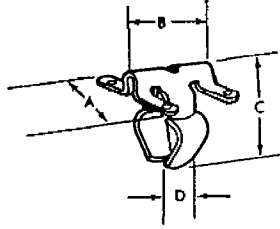
TYPE 73

PH-54(E)

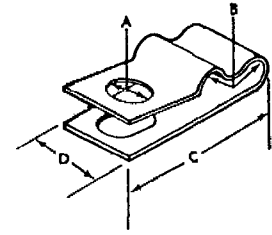
## PH-54(F) CLIP — SPECIAL — EXC. METRIC (Cont'd)



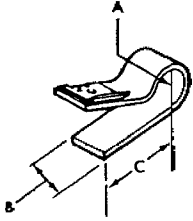
TYPE 74



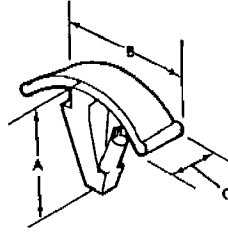
TYPE 75



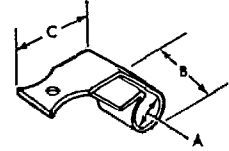
TYPE 76



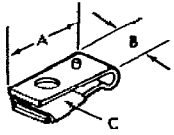
TYPE 77



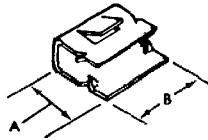
TYPE 78



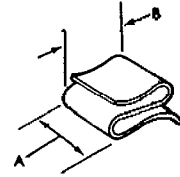
TYPE 79



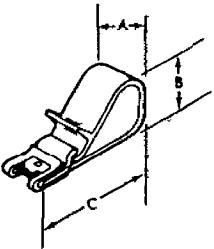
TYPE 80



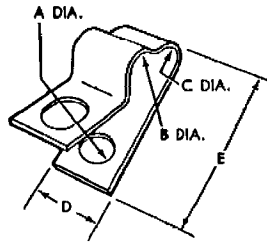
TYPE 81



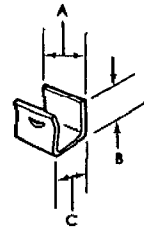
TYPE 82



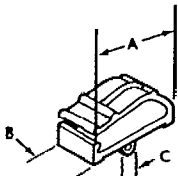
TYPE 83



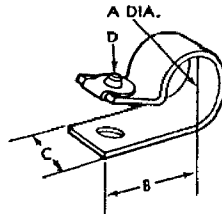
TYPE 84



TYPE 85



TYPE 86

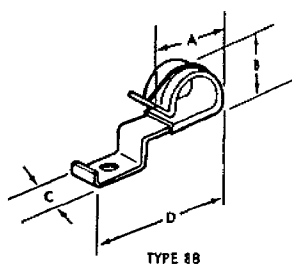


TYPE 87

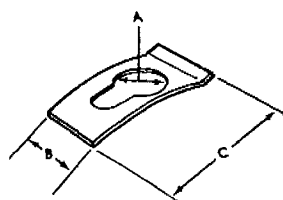
PH-54(F)

(continued)

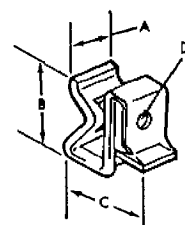
## PH-54(G) CLIP — SPECIAL — EXC. METRIC (Cont'd)



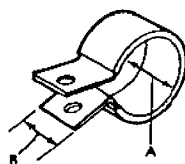
TYPE 88



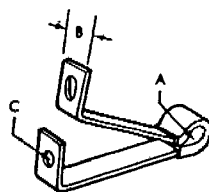
TYPE 89



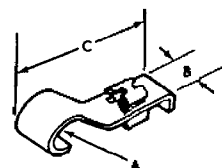
TYPE 90



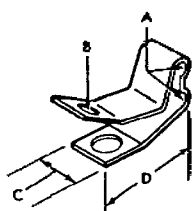
TYPE 91



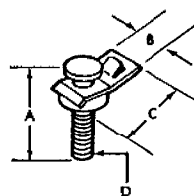
TYPE 92



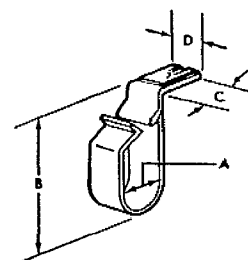
TYPE 93



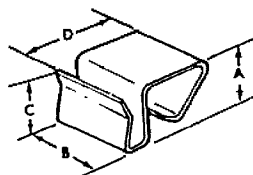
TYPE 94



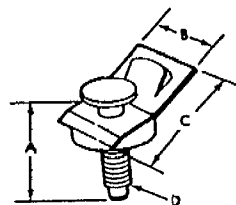
TYPE 95



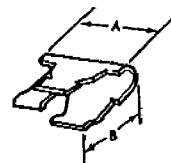
TYPE 96



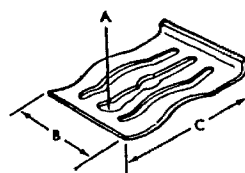
TYPE 97



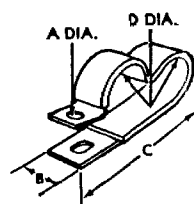
TYPE 98



TYPE 99



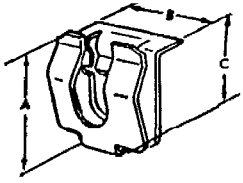
TYPE 100



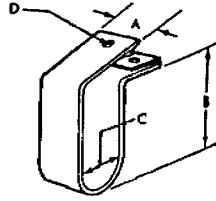
TYPE 101

PH-54(G)

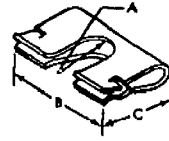
## PH-54(H) CLIP — SPECIAL — EXC. METRIC (Cont'd)



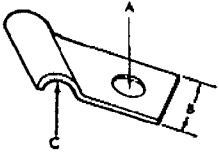
TYPE 102



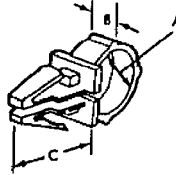
TYPE 103



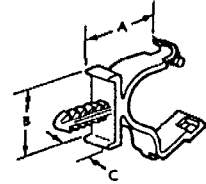
TYPE 104



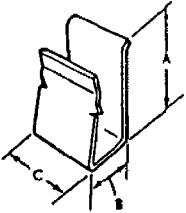
TYPE 105



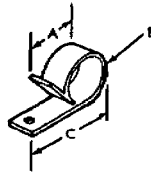
TYPE 106



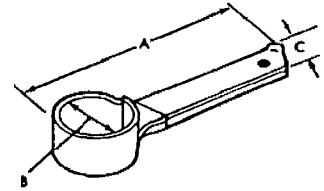
TYPE 107



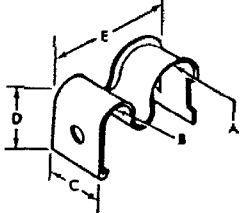
TYPE 108



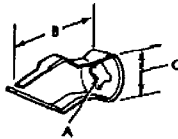
TYPE 109



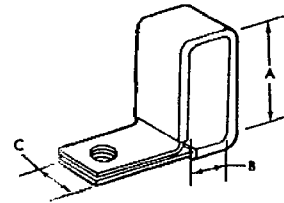
TYPE 110



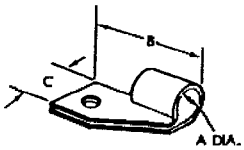
TYPE 111



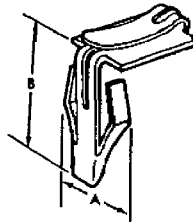
TYPE 112



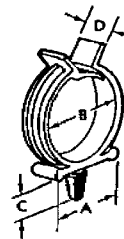
TYPE 113



TYPE 114



TYPE 115



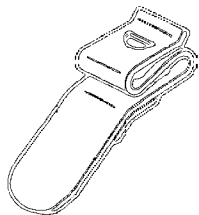
TYPE 116

PH-54(H)

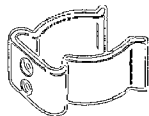
(continued)

# Standard and Utility Parts Catalog

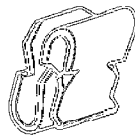
## PH-54(I) CLIP — SPECIAL — EXC. METRIC (Cont'd)



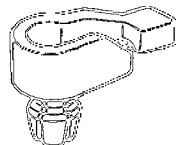
TYPE 117



TYPE 118



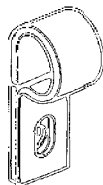
TYPE 119



TYPE 120



TYPE 121

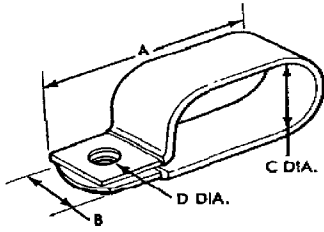


TYPE 122

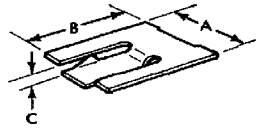
PH-54(I)

(continued)

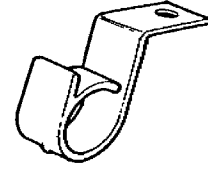
## PH-54(J) CLIP — SPECIAL — EXC. METRIC (Cont'd)



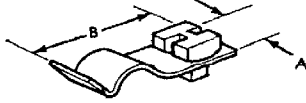
TYPE 123



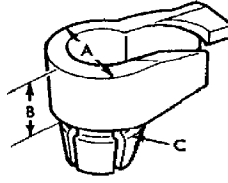
TYPE 124



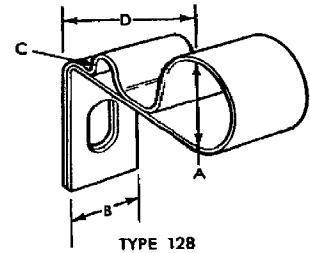
TYPE 125



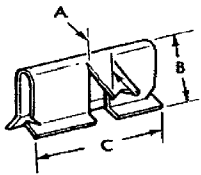
TYPE 126



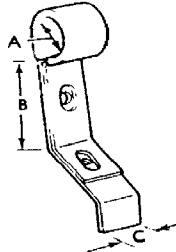
TYPE 127



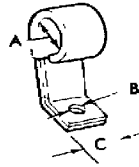
TYPE 128



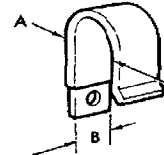
TYPE 129



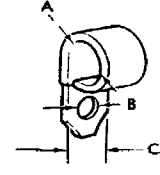
TYPE 130



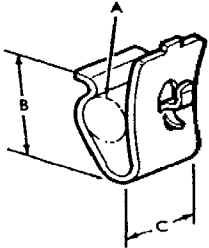
TYPE 131



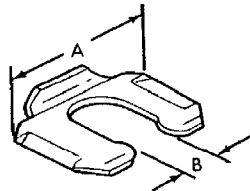
TYPE 132



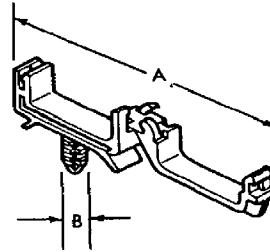
TYPE 133



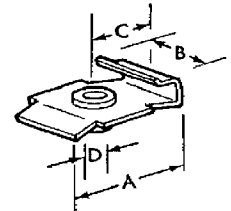
TYPE 134



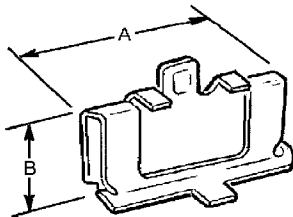
TYPE 135



TYPE 136



TYPE 137



TYPE 138

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| A        | B        | C        | D      | E | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|----------|----------|--------|---|------|--------------|--------------|
| 3/4"     | 1-1/2"   | 1/4"     |        |   | 1    | GG-382       | ★385069-S100 |
| 13/32"   | 3/4"     | 2-11/16" |        |   | 2    | GG-292       | ★373285-S32  |
| 1-7/8"   | 3/8"     | 3/4"     |        |   | 3    | GG-55        | ★388596-S100 |
| 2-9/16"  | 1-5/16"  | 11/32"   |        |   | 3    | GG-410       | ★388036-S2   |
| 3-1/4"   | 1-9/32"  | 11/32"   |        |   | 3    | GG-56        | ★371669-S100 |
| 1/2"     | 1/2"     | 37/64"   |        |   | 4    | GG-41        | ★354045-S2   |
| 2-21/32" | 3/4"     | 3"       |        |   | 4    | GG-41-A      | 390717-S56   |
| 1/2"     | 1-5/32"  | 29/32"   |        |   | 5    | GG-34        | ★354373-S32  |
| 1/2"     | 1-5/8"   | 1-1/16"  |        |   | 5    | GG-33        | ★354372-S32  |
| 8.1      | 2.1      | —        | —      | — | 6    | GG-33-A      | W708115-S301 |
| 5/8"     | 3/4"     |          |        |   | 6    | GG-253       | ★359514-S32  |
| 17/64"   | 5/8"     |          |        |   | 7    | GG-54        | ★358403-S2   |
| 11/32"   | 37/64"   | 21/64"   |        |   | 8    | GG-65        | ★358457-S32  |
| 1-5/64"  | 1-9/32"  | 21/64"   |        |   | 9    | GG-17        | ★352999-S32  |
| 3/4"     | 2"       | 7/16"    |        |   | 10   | GG-328       | ★382456-S    |
| 1/2"     | 23/64"   | 5/8"     | 9/32"  |   | 11   | GG-378       | ★111237-ES   |
| 21/64"   | 1/2"     |          |        |   | 12   | GG-309       | ★351785-S    |
| 55/64"   | 7/8"     | 3/16"    |        |   | 13   | GG-36        | ★357862-S2   |
| 19/32"   | 9/32"    | 1-5/8"   |        |   | 14   | GG-235-E     | ★377105-S    |
| 1/2"     | 1-3/4"   | 11/16"   |        |   | 15   | GG-267       | ★373829-S100 |
| 3"       | 7/8"     |          |        |   | 16   | GG-269-B     | ★384093-S100 |
| 19/64"   | 19/32"   |          |        |   | 17   | GG-258-A     | ★351968-S    |
| 1-3/16"  | 19/32"   |          |        |   | 17   | GG-258-B     | ★384884-S    |
| 1/4"     | 3/8"     | 3/4"     |        |   | 18   | GG-248       | ★380753-S    |
| 1-11/32" | 1-13/32" | 5/8"     | 1"     |   | 19   | GG-257       | ★379962-S    |
| 3/4"     | 1-3/4"   | 1-1/16"  |        |   | 20   | GG-256       | ★377987-S    |
| 1-1/4"   | 7-3/16"  | 3/4"     |        |   | 21   | GG-265       | ★381787-S100 |
| 1/4"     | 23/64"   | 3/16"    |        |   | 22   | GG-256-B     | ★389558-S2   |
| 3/8"     | 1/2"     | 3/8"     | —      | — | 22   | GG-256-D     | 388160-S56   |
| 3/8"     | 1/2"     | 3/8"     | —      | — | 22   | GG-256-DA    | 388160-S101  |
| 5/8"     | 1/4"     | 5/16"    |        |   | 22   | GG-256-A     | ★372223-S2   |
| 5/8"     | 1/4"     | 5/16"    | —      | — | 22   | GG-256-A     | ★372223-S301 |
| 11/16"   | 1/4"     | 3/8"     |        |   | 22   | GG-256-C     | ★389725-S2   |
| 13/32"   | 15/32"   | 2"       | 1/2"   |   | 23   | GG-236       | ★377359-S    |
| 21/64"   | 3/4"     | 1-1/2"   |        |   | 24   | GG-258       | ★372985-S    |
| 5/8"     | 11/16"   | 13/64"   |        |   | 25   | GG-240       | ★380340-S32  |
| 5/8"     | 1-19/32" | 17/64"   |        |   | 26   | GG-241       | ★380374-S100 |
| 5/16"    | 3/16"    | 1-3/4"   | 19/32" |   | 27   | GG-247       | ★380676-S    |
| 3/8"     | 3/16"    | 1-3/4"   | 19/32" |   | 27   | GG-247-B     | ★383661-S    |
| 9/64"    | 9/64"    | 2-3/64"  | 19/32" |   | 27   | GG-395       | ★386048-S    |
| 5/8"     | 5/8"     | 1-21/64" |        |   | 28   | GG-243       | ★373920-S2   |
| 9/16"    | 5/16"    | 3/8"     |        |   | 29   | GG-403-G     | ★387044-S2   |
| 21/64"   | 1/2"     | 17/32"   | 7/16"  |   | 30   | GG-261       | ★381645-S100 |
| 1-1/2"   | 21/32"   | 1/2"     | 1/4"   |   | 31   | GG-260-A     | ★384766-S2   |
| 1-11/16" | 21/32"   | 1/2"     | 1/4"   |   | 31   | GG-163-ZC    | ★384790-S2   |
| 1-7/32"  | 1-3/32"  | 9/16"    |        |   | 32   | GG-208-A     | 352976-S32   |
| 1/2"     | 1-1/8"   | 1/4"     |        |   | 33   | GG-252       | ★380896-S    |
| 1/4"     | 1/2"     | 1-1/4"   |        |   | 34   | GG-413       | ★388133-S100 |
| 1-11/16" | 3/8"     | 9/16"    |        |   | 35   | GG-295       | ★382367-S100 |
| 1/2"     | 3/16"    | 1-11/32" |        |   | 36   | GG-302       | ★382409-S    |
| 3/4"     | 1-1/2"   | 7/8"     |        |   | 37   | GG-400-G     | ★386135-S100 |
| 1"       | 1-1/2"   | 63/64"   |        |   | 38   | GG-407       | ★387486-S    |
| 21/32"   | 5/8"     | 1/4"     |        |   | 39   | GG-384       | ★385369-S100 |
| 1-9/64"  | 35/64"   | 3/4"     |        |   | 40   | GG-399-GB    | ★386693-S100 |
| 1-1/2"   | 7/8"     | 1"       |        |   | 40   | GG-399-GA    | ★385147-S100 |
| 1-5/8"   | 7/8"     | 1"       |        |   | 40   | GG-399-G     | ★384044-S100 |
| 5/8"     | 1-7/8"   | 1"       |        |   | 41   | GG-423-E     | ★387931-S100 |
| 3/4"     | 3"       | 1"       | —      | — | 41   | GG-423-F     | ★391787-S427 |
| 21/64"   | 27/32"   | 3/8"     |        |   | 42   | GG-398       | 386299-S     |
| 3/4"     | 3/8"     | 29/64"   |        |   | 43   | GG-360-A     | ★373011-S8   |
| 1/2"     | 3/8"     | 3/16"    |        |   | 44   | GG-416       | ★388381-S2   |
| 1-3/16"  | 5/8"     | 3/8"     | 11/32" |   | 45   | GG-167-B     | ★359833-S    |

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| A        | B        | C        | D       | E | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|----------|----------|---------|---|------|--------------|--------------|
| 1-1/8"   | 3/4"     | 1/2"     | 9/32"   |   | 45   | GG-167-A     | ★353787-S8   |
| 1-23/64" | 3/4"     | 1/2"     | 9/32"   |   | 45   | GG-167       | ★351767-S8   |
| 1-13/32" | 1"       | 13/16"   | 27/64"  | — | 45   | GG-167-C     | ★384062-S100 |
| 2"       | 5/8"     | 1/2"     | 9/32"   |   | 45   | GG-168       | ★376588-S    |
| 7/8"     | 1-3/16"  | 11/32"   |         |   | 46   | GG-186       | ★372046-S100 |
| 7/8"     | 7/8"     | 11/32"   |         |   | 46   | GG-186-A     | 372047-S100  |
| 1-5/8"   | 29/32"   |          | 13/64"  |   | 47   | GG-412-F     | ★391528-S    |
| 1-15/16" | 1"       | 11/32"   | 3/4"    |   | 47   | GG-412       | ★388126-S100 |
| 1-19/32" | 3/4"     | 7/32"    | 5/8"    |   | 47   | GG-187-A     | ★376219-S100 |
| 2-1/4"   | 15/16"   | 13/32"   | 5/8"    |   | 47   | GG-213-GA    | 374944-S100  |
| 2-29/64" | 1-1/2"   | 9/32"    | 5/8"    |   | 47   | GG-187       | ★372751-S100 |
| 3-1/4"   | 13/32"   | 9/16"    | 1"      |   | 47   | GG-412-E     | 389132-S100  |
| 2-1/2"   | 3/4"     | 13/32"   | 3/4"    |   | 47   | GG-213-GB    | ★385230-S101 |
| 3-9/32"  | 15/16"   | 13/32"   | 1"      |   | 47   | GG-421-E     | ★384045-S100 |
| 3-15/32" | 2-1/2"   | 11/32"   | 5/8"    |   | 47   | GG-421-EF    | ★390217-S100 |
| 4-5/8"   | 2"       | 17/32"   | 1"      |   | 47   | GG-187-E     | ★386856-S100 |
| 1/2"     | 1-51/64" |          |         |   | 48   | GG-190       | ★373150-S2   |
| 3/4"     | 1/4"     | 1"       |         |   | 49   | GG-377       | ★385017-S2   |
| 1/2"     | 1-7/32"  | 3/16"    |         |   | 50   | GG-206       | ★357821-S8   |
| 5/8"     | 25/32"   | 15/16"   |         |   | 51   | GG-197       | ★372858-S100 |
| 1/2"     | 2"       | 37/64"   |         |   | 52   | GG-199       | ★373415-S100 |
| 21/64"   | 1/2"     |          |         |   | 53   | GG-227       | ★375780-S8   |
| 3/4"     | 2-13/32" |          |         |   | 54   | GG-201       | ★374266-S    |
| 3/4"     | 1/4"     | 1-19/32" |         |   | 55   | GG-250       | ★380694-S    |
| 3/8"     | 7/16"    |          |         |   | 56   | GG-215       | ★375894-S7-8 |
| 1-3/16"  | 1"       | 11/16"   |         |   | 57   | GG-391       | ★385595-S    |
| 3/16"    | 5/8"     | 1"       | 7/16"   |   | 58   | GG-213-T     | 353473-S8    |
| 7/32"    | 27/64"   | 1-7/16"  | 1-1/2"  |   | 58   | GG-213       | ★375610-S100 |
| 7/32"    | 5/8"     | 1-3/32"  | 7/16"   |   | 58   | GG-213-A     | ★374998-S100 |
| 11/32"   | 5/8"     | 1-1/4"   | 1/4"    |   | 58   | GG-213-B     | 377696-S     |
| 11/32"   | 5/8"     | 1-1/2"   | 5/8"    |   | 58   | GG-213-C     | 377673-S8    |
| 9/32"    | 3/4"     | 2-13/16" | 1-1/2"  |   | 58   | GG-213-K     | ★382142-S100 |
| 3/8"     | 5/8"     | 1-1/8"   | 1/2"    |   | 58   | GG-213-P     | 377670-S8    |
| 13/32"   | 5/8"     | 2-39/64" | 1-1/4"  |   | 58   | GG-213-R     | ★372807-S100 |
| 13/32"   | 5/8"     | 1"       | 5/16"   |   | 58   | GG-213-D     | ★377695-S100 |
| 13/32"   | 3/4"     | 1-3/8"   | 15/32"  |   | 58   | GG-213-NF    | ★377872-S100 |
| 13/32"   | 3/4"     | 1-13/16" | 11/16"  |   | 58   | GG-213-S     | 388592-S100  |
| 13/32"   | 1"       | 1-57/64" | 63/64"  |   | 58   | GG-213-M     | ★384062-S100 |
| 15/32"   | 3/4"     | 1-9/16"  | 3/8"    |   | 58   | GG-213-E     | ★372180-S100 |
| 15/32"   | 7/8"     | 2-45/64" | 1-3/16" |   | 58   | GG-231       | ★376906-S100 |
| 23/64"   | 5/8"     | 2"       | 1"      |   | 58   | GG-213-G     | ★378042-S    |
| 3/8"     | 11/16"   | 1-3/16"  | 13/32"  |   | 59   | GG-226       | ★371063-S32  |
| 1-1/8"   | 15/16"   | 3/4"     |         |   | 60   | GG-232-DB    | ★390506-S    |
| 1"       | 1-13/32" | 1-1/6"   |         |   | 60   | GG-232-DC    | ★388356-S2   |
| 1-3/16"  | 1-11/16" | 1-3/16"  |         |   | 60   | GG-232-EF    | ★389156-S2   |
| 1-1/4"   | 1-17/32" | 1-7/32"  |         |   | 60   | GG-232-EE    | ★387744-S2   |
| 1-1/4"   | 1-17/32" | 1-1/4"   |         |   | 60   | GG-232-D     | 383741-S     |
| 1-1/4"   | 1-1/2"   | 7/8"     |         |   | 60   | GG-232-EG    | ★389156-S    |
| 17/32"   | 1-1/8"   | 33/64"   |         |   | 61   | GG-210-M     | ★371645-S100 |
| 7/16"    | 5/8"     | 15/32"   |         |   | 62   | GG-211       | ★374942-S100 |
| 7/8"     | 15/16"   | 11/32"   | 11/32"  |   | 63   | GG-217       | ★372047-S100 |
| 3/4"     | 1-1/4"   | 1/2"     |         |   | 64   | GG-234       | ★379605-S8   |
| 1/4"     | 5/8"     | 1-5/16"  |         |   | 65   | GG-221-CA    | ★377730-S100 |
| 9/16"    | 5/8"     | 1-1/4"   | —       | — | 65   | GG-221-DA    | 354892-S100  |
| 5/16"    | 1-27/64" | 11/16"   |         |   | 66   | GG-234-A     | ★379816-S32  |
| 1"       | 1-5/8"   | 5/8"     |         |   | 67   | GG-228       | ★372172-S100 |
| 1"       | 1-5/8"   | 5/8"     |         |   | 67   | GG-228-A     | ★358347-S    |
| 1/2"     | 1-5/32"  | 9/16"    |         |   | 68   | GG-225       | ★373665-S100 |
| 9/64"    | 3/16"    | 3/8"     | 9/64"   |   | 69   | GG-229       | ★375882-S7-8 |
| 1-3/4"   | 2-3/16"  | 3/4"     |         |   | 70   | GG-304-B     | ★387897-S100 |
| 1/2"     | 1-7/16"  | 13/16"   |         |   | 71   | GG-383       | 385228-S     |
| #8-18    | 5/8"     | 1-21/32" |         |   | 72   | GG-304-A     | ★381999-S100 |
| 1-1/4"   | 5/8"     | 1/4"     | 11/32"  |   | 73   | GG-221-C     | ★374989-S100 |

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| A        | B        | C        | D       | E        | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|----------|----------|---------|----------|------|--------------|---------------|
| 1-1/4"   | 1-17/32" | 1-7/32"  |         |          | 73   | GG-232-DC    | ★388356-S2    |
| 1/2"     | 2"       | 1"       |         |          | 74   | GG-388       | ★385633-S     |
| 27/32"   | 3/4"     | 11/16"   | 1/4"    |          | 75   | GG-385       | ★385347-S7    |
| 13/32"   | 7/32"    | 1-21/32" | 3/4"    |          | 76   | GG-307       | ★382233-S     |
| 13/32"   | 11/32"   | 2-1/2"   | 1"      |          | 76   | GG-307-A     | ★389972-S     |
| 1/2"     | 5/8"     | 1-11/32" |         |          | 77   | GG-299       | ★381954-S100  |
| 11/16"   | 1-1/2"   | 1/2"     |         |          | 78   | GG-387       | ★385330-S     |
| 9/16"    | 1-3/8"   | 1-21/32" |         |          | 79   | GG-285       | ★382239-S     |
| 1-3/16"  | 3/4"     | 1/4"-14  |         |          | 80   | GG-273       | ★381737-S100  |
| 5/16"    | 1/2"     |          |         |          | 81   | GG-287-A     | ★380559-S2    |
| 3/4"     | 13/16"   |          |         |          | 82   | GG-288       | ★377529-S32   |
| 3/4"     | 15/32"   | 2-1/2"   |         |          | 83   | GG-303       | ★382033-S100  |
| 11/32"   | 3/8"     | 9/32"    | 3/4"    | 1-21/32" | 84   | GG-386       | ★385265-S2    |
| 27/64"   | 1/2"     | 1/2"     | 7/8"    | 2-1/16"  | 84   | GG-386-B     | ★U350515-S101 |
| 8.7mm    | 3/16"    | 1/4"     | 19mm    | 32.5mm   | 84   | GG-386-A     | ★389624-S100  |
| 9/32"    | 1/2"     | 1/32"    | 5/8"    | 1"       | 84   | GG-386-C     | 95869-S32     |
| 5/16"    | 5/16"    | 3/16"    |         |          | 85   | GG-290       | ★381637-S2    |
| 1-3/4"   | 3/4"     | 9/32"    |         |          | 86   | GG-301       | ★378834-S     |
| 1"       | 1-1/16"  | 3/4"     | #8-18   |          | 87   | GG-376       | ★381953-S100  |
| 1-3/8"   | 3/4"     | 5/8"     | 2-9/16" |          | 88   | GG-326       | ★381726-S100  |
| 25/64"   | 1/2"     | 1-5/64"  |         |          | 89   | GG-281       | ★382148-S2    |
| 3/8"     | 1/2"     | 7/16"    | 1/8"    |          | 90   | GG-392       | ★385915-S     |
| 1-1/2"   | 3/4"     |          |         |          | 91   | GG-213-H     | ★380852-S100  |
| 1/2"     | 5/8"     | 11/32"   |         |          | 92   | GG-221-B     | ★377713-S100  |
| 9/16"    | 5/8"     | 11/32"   |         |          | 92   | GG-221-C     | ★377713-S101  |
| 13/32"   | 5/8"     | 2"       |         |          | 93   | GG-375       | ★384804-S100  |
| 1/4"     | 15/32"   | 3/4"     | 1-1/2"  |          | 94   | GG-272       | ★381970-S7-8  |
| 2"       | 1/2"     | 27/32"   | #8-32   |          | 95   | GG-333-B     | ★382918-S100  |
| 3/4"     | 2"       | 7/8"     | 5/8"    |          | 96   | GG-359       | ★383182-S100  |
| 11/32"   | 1/2"     | 5/15"    | 5/8"    |          | 97   | GG-322       | ★381829-S32   |
| 5/8"     | 1/2"     | 27/32"   | #8-32   |          | 98   | GG-333-C     | 383665-S100   |
| 3/4"     | 1/2"     | 27/32"   | #8-32   |          | 98   | GG-333       | ★381955-S100  |
| 1-1/4"   | 1/2"     | 27/32"   | #8-32   |          | 98   | GG-333-A     | 382121-S100   |
| 5/8"     | 11/32"   |          |         |          | 99   | GG-361       | ★383125-S     |
| 7/32"    | 39/64"   | 13/16"   |         |          | 100  | GG-325       | ★353675-S2    |
| 11/32"   | 5/8"     | 3-1/16"  | 15/15"  |          | 101  | GG-282       | ★382168-S100  |
| 27/64"   | 3/4"     | 2-17/32" | 23/32"  |          | 101  | GG-282-A     | ★383701-S100  |
| 11/32"   | 3/4"     | 1-21/32" | 3/8"    |          | 101  | GG-282-B     | ★386021-S2    |
| 3/4"     | 5/8"     | 11/16"   |         |          | 102  | GG-362       | ★383212-S2    |
| 1"       | 1/2"     | 3/8"     |         |          | 102  | GG-362-D     | ★390324-S32B  |
| 3/4"     | 1-3/4"   | 7/8"     | 11/32"  |          | 103  | GG-358       | ★383034-S100  |
| 11/32"   | 7/8"     | 11/16"   |         |          | 104  | GG-374       | ★372835-S2    |
| 11/32"   | 5/8"     | 1/4"     |         |          | 105  | GG-163-YD    | ★383214-S     |
| 1/4"     | 3/16"    | 7/16"    |         |          | 106  | GG-338-AA    | 382929-S      |
| 1/2"     | 3/16"    | 7/16"    |         |          | 106  | GG-338-A     | 382930-S      |
| 3/4"     | 3/16"    | 7/16"    |         |          | 106  | GG-338       | 382931-S      |
| 1"       | 3/16"    | 7/16"    |         |          | 106  | GG-338-C     | ★382932-S     |
| 11.5"    | 18.0"    | 7.0"     |         |          | 107  | GG-393-A     | W704005-S300  |
| 1-27/32" | 1-1/4"   | 1/2"     |         |          | 107  | GG-393       | ★385007-S     |
| 5/8"     | 3/8"     | 1/2"     |         |          | 108  | GG-360       | ★383277-S2    |
| 9/16"    | 7/32"    | 1-1/8"   |         |          | 109  | GG-109       | ★387996-S     |
| 5-1/16"  | 1-3/16"  | 1"       |         |          | 110  | GG-406       | ★387416-S100  |
| 7/16"    | 9/32"    | 1/2"     | 1/2"    | 1"       | 111  | GG-363       | ★383591-S     |
| 3/16"    | 1-27/32" | 9/16"    |         |          | 112  | GG-397-E     | ★386450-S100  |
| 1/4"     | 1-1/8"   | 9/16"    |         |          | 112  | GG-397-A     | ★386773-S100  |
| 1-5/8"   | 7/8"     | 3/4"     |         |          | 113  | GG-401-G     | ★386853-S100  |
| 3/8"     | 1-5/16"  | 11/16"   |         |          | 114  | GG-396       | ★386689-S2    |
| 1/2"     | 1"       |          |         |          | 115  | GG-405-EA    | ★387518-S2    |
| 1"       | 5/8"     | 1/2"     | 5/16"   |          | 116  | GG-271-C     | ★383477-S     |
| 1-1/16"  | 1-3/8"   | 29/64"   | 1/2"    |          | 116  | GG-271-B     | ★383312-S     |
| 1-1/4"   | 1"       | 1/2"     | 5/16"   |          | 116  | GG-271       | 383207-S      |
| 1-55/64" | 1-1/2"   | 1/2"     | 1/2"    |          | 116  | GG-271-A     | 384386-S      |

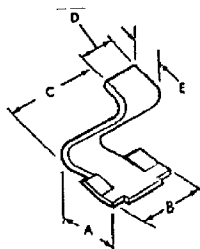
# Standard and Utility Parts Catalog

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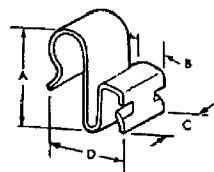
## PH-54(J) CLIP — SPECIAL — EXC. METRIC (Cont'd)

| A       | B       | C       | D      | E | TYPE | LOCATOR CODE | PART NUMBER   |
|---------|---------|---------|--------|---|------|--------------|---------------|
| 7/8"    | 5/8"    | 1-7/16" |        |   | 117  | GG-418       | ★387492-S2    |
| 5/16"   | 5/8"    | 5/16"   |        |   | 118  | GG-419-A     | 372223-S43    |
| 3/4"    | 7/8"    | 1-1/8"  | 31/32" |   | 118  | GG-419       | ★388939-S100  |
| 3/8"    | 17/32"  |         |        |   | 119  | GG-417       | ★379870-S2    |
| 3/8"    | 5/8"    |         |        |   | 119  | GG-417-A     | ★374825-S32   |
| 31/32"  | 15/32"  | 5/16"   | 5/16"  |   | 120  | GG-425-E     | ★389017-S     |
| 3/4"    | 2-3/32" | 15/16"  |        |   | 121  | GG-422       | ★388557-S100  |
| 19mm    | 91"     | 60mm    |        |   | 121  | AG-81-F      | ★N802065-S100 |
| 11/32"  | 2"      | 1/2"    |        |   | 122  | GG-424-G     | ★377807-S100  |
| 5/8"    | 1-5/8"  | 13/16"  |        |   | 122  | GG-424-E     | ★376488-S100  |
| 2-5/8"  | 3/4"    | 13/16"  | 11/32" |   | 123  | GG-411       | ★388117-S100  |
| 3-5/8"  | 7/8"    | 1"      | 11/32" |   | 123  | GG-402-G     | ★386857-S100  |
| 5/8"    | 3/4"    | 1/8"    |        |   | 124  | GG-426-F     | ★388332-S     |
|         |         |         |        |   | 125  | GG-428       | ★352598-S     |
| 5/8"    | 1-1/4"  | 3/4"    | 5/8"   | — | 125  | GG-428-A     | ★391807-S427  |
| 11/16"  | 1-9/16" |         |        |   | 126  | GG-429       | ★377078-S100  |
| 7/16"   | 15/32"  | 5/16"   |        |   | 127  | GG-430       | ★389760-S     |
| 5/8"    | 1"      | 1/4"    | 1-5/8" |   | 128  | GG-431       | ★389848-S     |
| 1/4"    | 11/32"  | 3/4"    |        |   | 129  | GG-432       | 389611-S100   |
| 5/8"    | 1-3/4"  | 7/8"    |        |   | 130  | GG-433       | ★389778-S100  |
| 1-3/16" | 7/16"   | 1"      |        |   | 131  | GG-434       | ★384448-S     |
| 3/8"    | 3/4"    |         |        |   | 132  | GG-437       | ★390329-S     |
| 5/8"    | 9/16"   | 1"      |        |   | 133  | GG-436       | ★390331-S     |
| 31/64"  | 3/4"    | 5/8"    |        |   | 134  | GG-438       | ★390448-S32B  |
| 1"      | 3/8"    |         |        |   | 135  | GG-440       | ★387660-S101  |
| 1-1/8"  | 1/2"    |         |        |   | 135  | GG-440       | ★391115-S100  |
| 4"      | 21/64"  |         |        |   | 136  | GG-442       | ★390705-S     |
| 1-1/16" | 5/8"    | 11/16"  | 17/64" |   | 137  | GG-260-B     | ★386148-S43   |
| 37.3mm  | 31.8mm  | —       | —      |   | 138  | GG-990       | ★W704268-S307 |

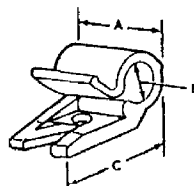
## PH-54(L) CLIP — SPECIAL — METRIC



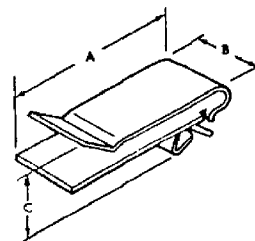
TYPE 1



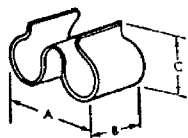
TYPE 2



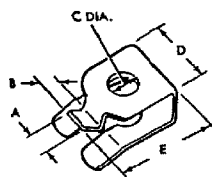
TYPE 3



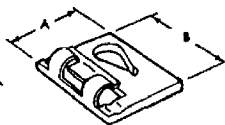
TYPE 4



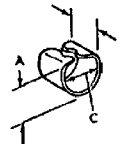
TYPE 5



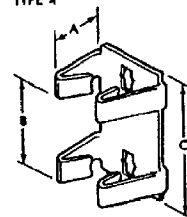
TYPE 6



TYPE 7



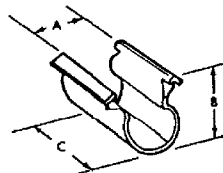
TYPE 8



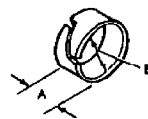
TYPE 9



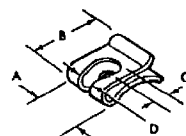
TYPE 10



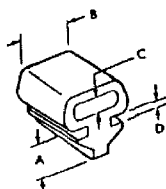
TYPE 11



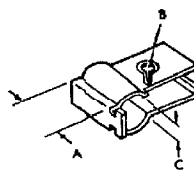
TYPE 12



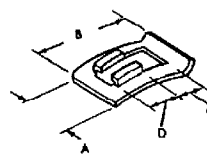
TYPE 13



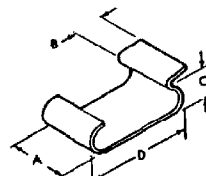
TYPE 14



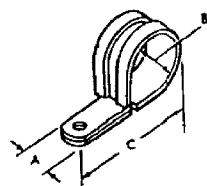
TYPE 15



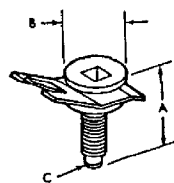
TYPE 16



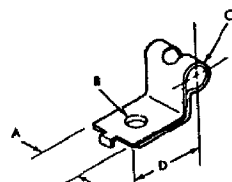
TYPE 17



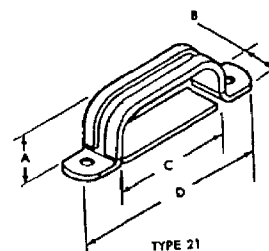
TYPE 18



TYPE 19



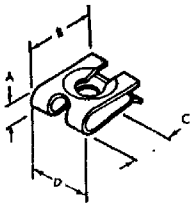
TYPE 20



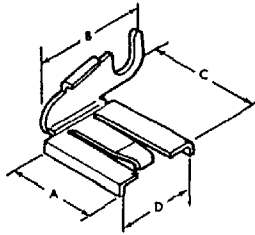
TYPE 21

PH-54(L)

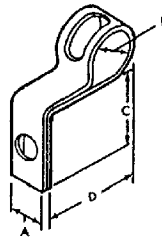
## PH-54(M) CLIP — SPECIAL — METRIC (Cont'd)



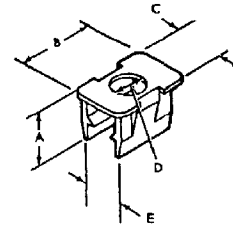
TYPE 22



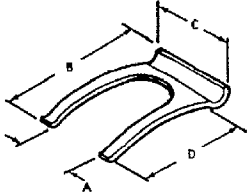
TYPE 23



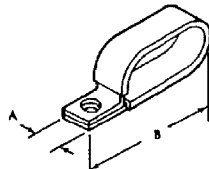
TYPE 24



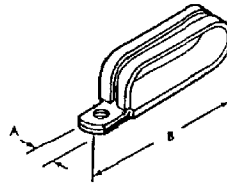
TYPE 25



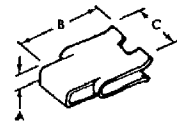
TYPE 26



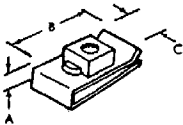
TYPE 27



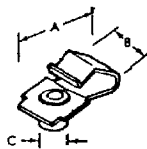
TYPE 28



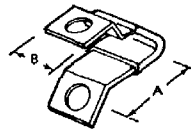
TYPE 29



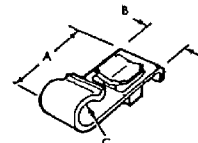
TYPE 30



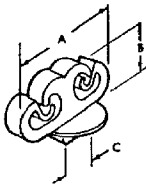
TYPE 31



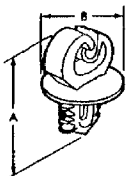
TYPE 32



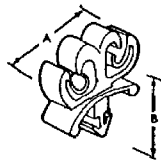
TYPE 33



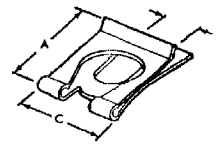
TYPE 34



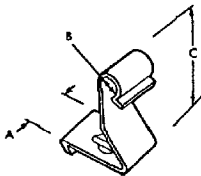
TYPE 35



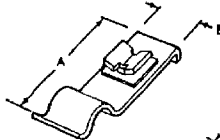
TYPE 36



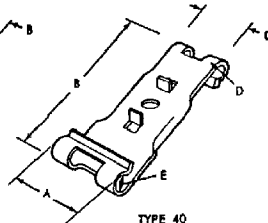
TYPE 37



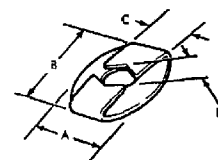
TYPE 38



TYPE 39



TYPE 40

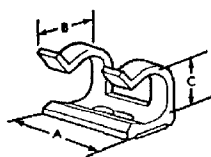


TYPE 41

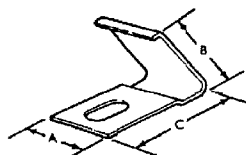
PH-54(M)

(continued)

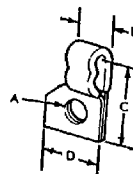
## PH-54(N) CLIP — SPECIAL — METRIC (Cont'd)



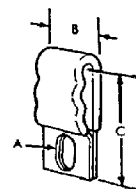
TYPE 42



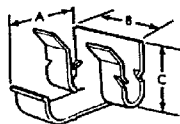
TYPE 43



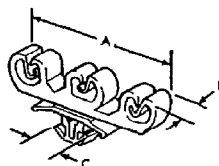
TYPE 44



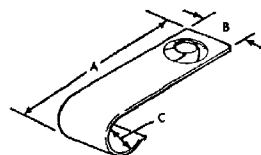
TYPE 45



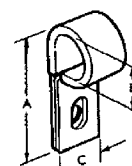
TYPE 46



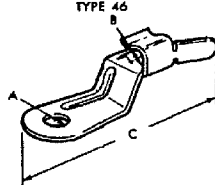
TYPE 47



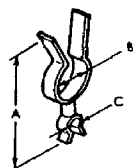
TYPE 48



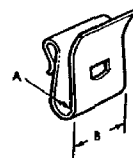
TYPE 49



TYPE 50



TYPE 51



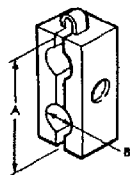
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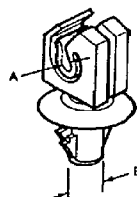
TYPE 53



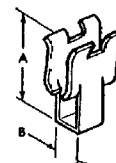
TYPE 54



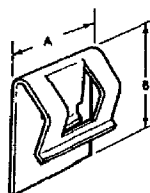
TYPE 55



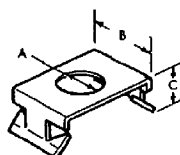
TYPE 56



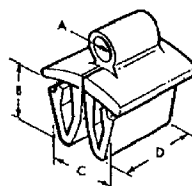
TYPE 57



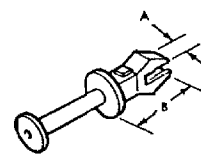
TYPE 58



TYPE 59



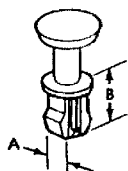
TYPE 60



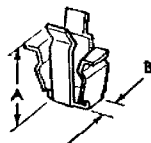
TYPE 61

PH-54(N)

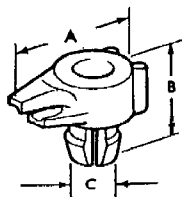
## PH-54(N)2 CLIP — SPECIAL — METRIC (Cont'd)



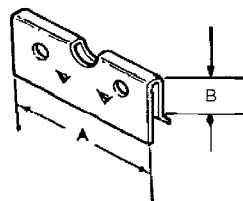
TYPE 62



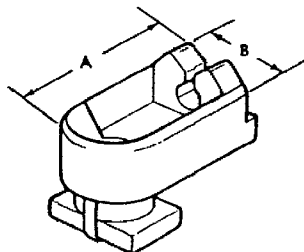
TYPE 63



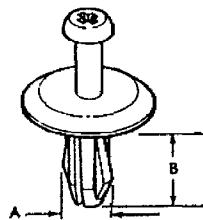
TYPE 64



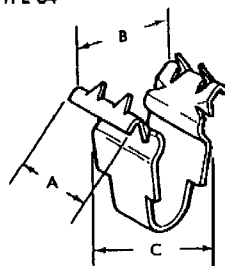
TYPE 65



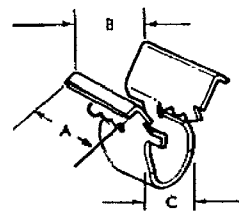
TYPE 66



TYPE 67



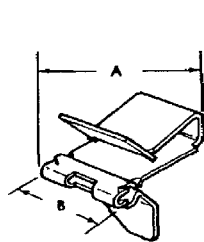
TYPE 68



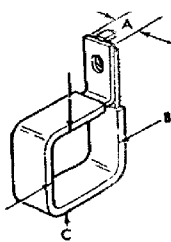
TYPE 69

PH-54(N)2

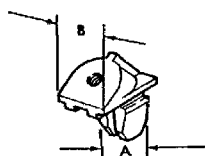
## PH-54(N)3 CLIP — SPECIAL — METRIC (Cont'd)



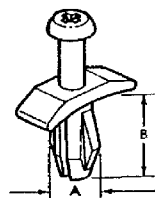
TYPE 70



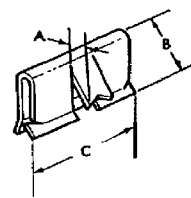
TYPE 71



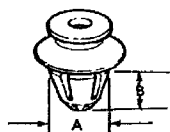
TYPE 72



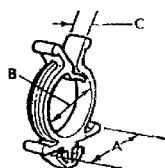
TYPE 73



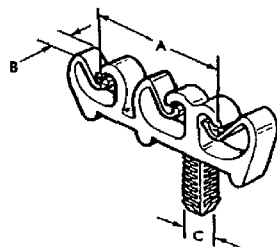
TYPE 74



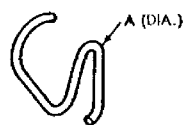
TYPE 75



TYPE 76



TYPE 77



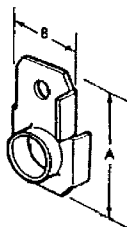
TYPE 78

PH-54(N)3

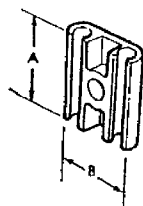
(continued)



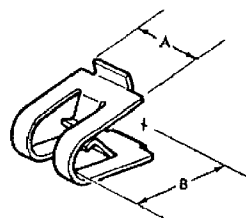
## PH-54(N)4 CLIP — SPECIAL — METRIC (Cont'd)



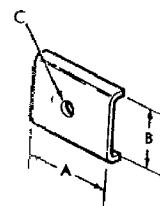
TYPE 79



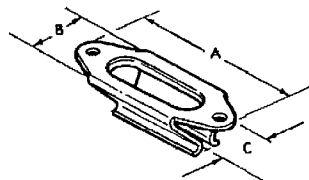
TYPE 80



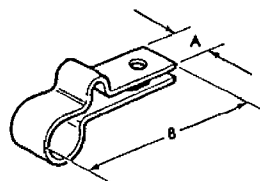
TYPE 81



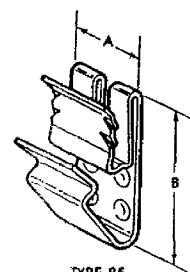
TYPE 82



TYPE 83



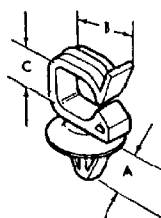
TYPE 84



TYPE 85

PH-54(N)4

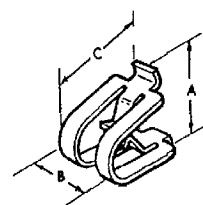
## PH-54(N)5 CLIP — SPECIAL — METRIC (Cont'd)



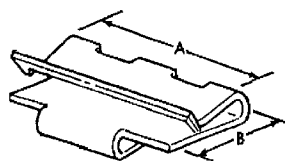
TYPE 86



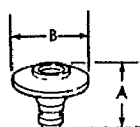
TYPE 87



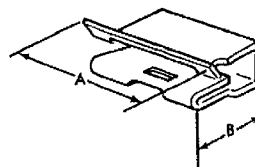
TYPE 88



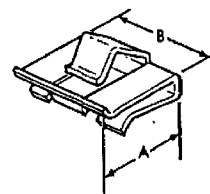
TYPE 89



TYPE 90



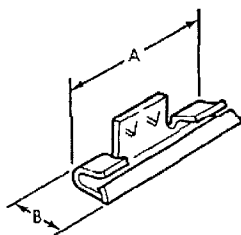
TYPE 91



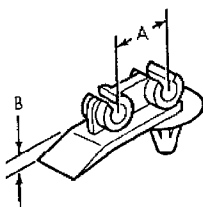
TYPE 92

PH-54(N)5

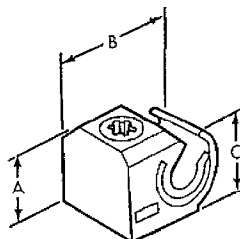
## PH-54(N)6 CLIP — SPECIAL — METRIC (Cont'd)



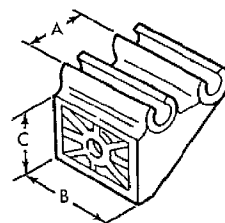
TYPE 93



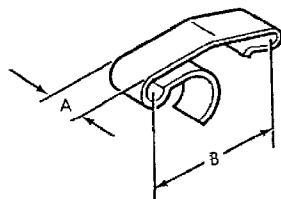
TYPE 94



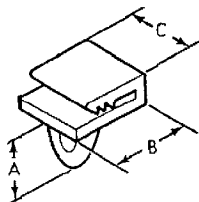
TYPE 95



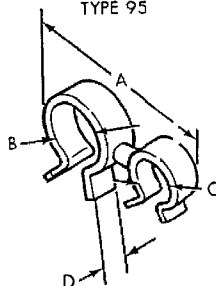
TYPE 96



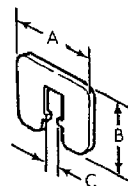
TYPE 97



TYPE 98



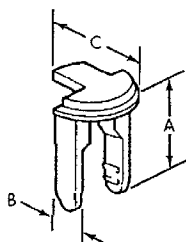
TYPE 99



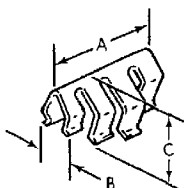
TYPE 100

PH-54(N)6

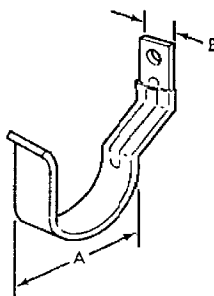
## PH-54(N)7 CLIP — SPECIAL — METRIC (Cont'd)



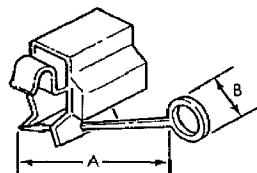
TYPE 101



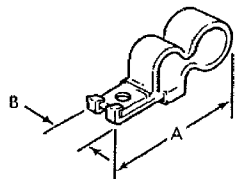
TYPE 102



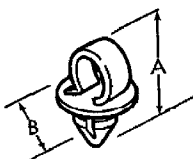
TYPE 103



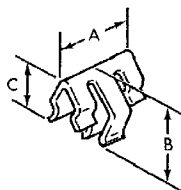
TYPE 104



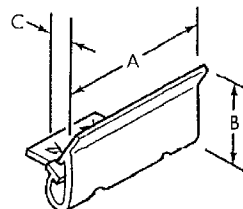
TYPE 105



TYPE 106



TYPE 107

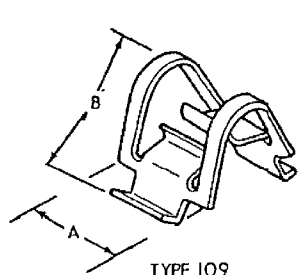


TYPE 108

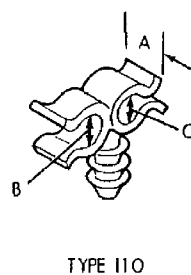
PH-54(N)7

(continued)

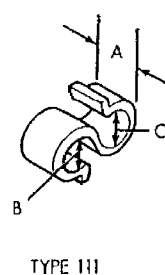
## PH-54(N)8 CLIP — SPECIAL — METRIC (Cont'd)



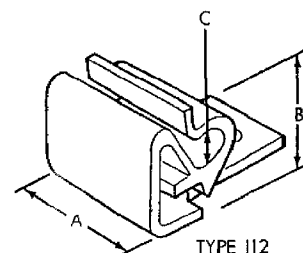
TYPE 109



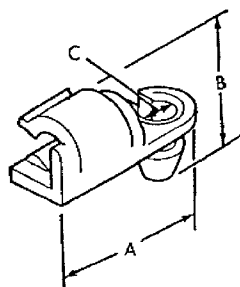
TYPE 110



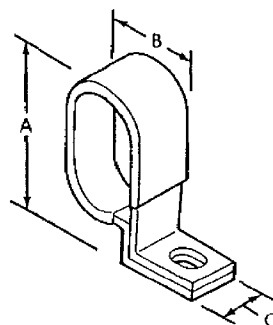
TYPE 111



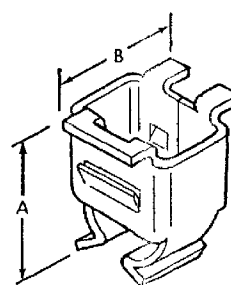
TYPE 112



TYPE 113



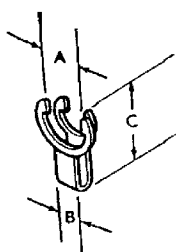
TYPE 114



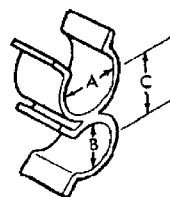
TYPE 115

PH-54(N)8

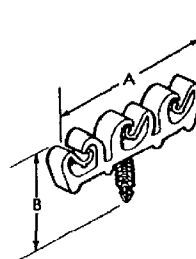
## PH-54(N)9 CLIP — SPECIAL — METRIC (Cont'd)



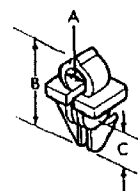
TYPE 116



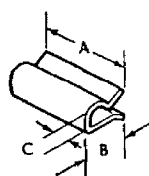
TYPE 117



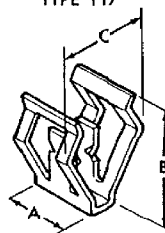
TYPE 118



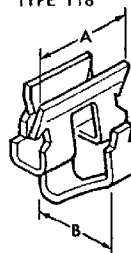
TYPE 119



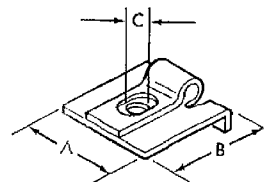
TYPE 120



TYPE 121



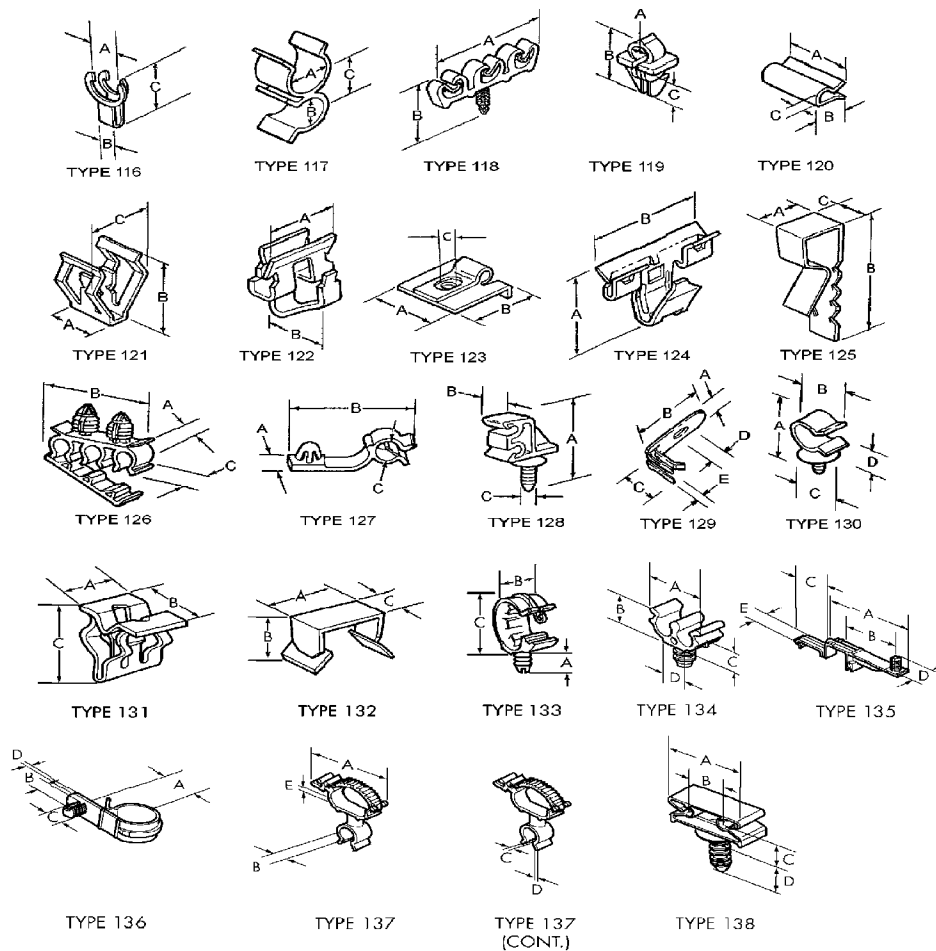
TYPE 122



TYPE 123

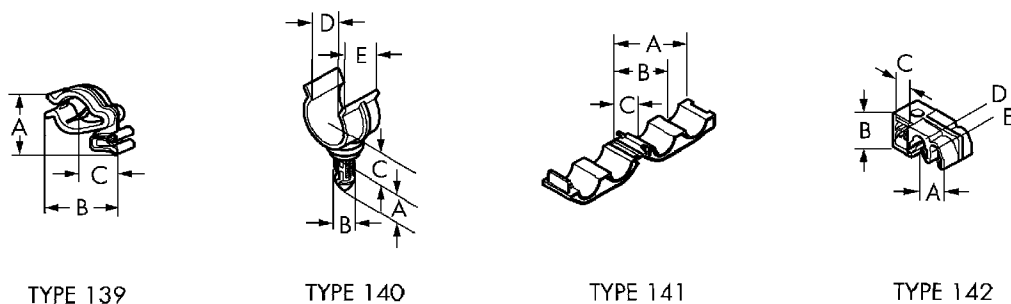
PH-54(N)9

## PH-54(N)10 CLIP — SPECIAL — METRIC (Cont'd)



PH-54N10  
12/17/2002

## PH-54(N)11 CLIP — SPECIAL — METRIC (Cont'd)



PH-54N11  
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Standard and Utility Parts Catalog

PH-54(N)11 CLIP — SPECIAL — METRIC (Cont'd)

| A       | B       | C       | D       | E       | TYPE | LOCATOR CODE | PART NUMBER    |
|---------|---------|---------|---------|---------|------|--------------|----------------|
| 3.5mm   | 14mm    |         |         |         | 5    | AG-47-AC     | N808648-S100   |
| 2.90mm  | —       | —       | 16.10mm | 22.05mm | 6    | AG-1A        | N807840-S2     |
| 7.6mm   | 7.1mm   | 8mm     | 11.4mm  | 13.5mm  | 6    | AG-1B        | W706009-S300   |
| 13.0mm  | 23mm    | 11.5mm  | —       | —       | 10   | AG-61        | W700254-S300   |
| 12.5mm  | —       | —       | —       | —       | 11   | GG-256-DB    | W707781-S426   |
| 15.05mm | 25.65mm | 2.50mm  | 6.58mm  | —       | 13   | AG-66        | W704962-S301   |
| 15.05mm | 25.65mm | 2.50mm  | 6.58mm  | —       | 13   | AG-66        | W704962-S426   |
| 12.7mm  | 18mm    | 2.54mm  | 15.49mm | —       | 16   | AG-70-A      | ★ W701870-S301 |
| 13.0mm  | 8.0mm   | 21.3mm  | —       | Black   | 18   | AG-83-F      | W702804-S300   |
| 19mm    | 9.6mm   | M4      |         |         | 19   | AG-74        | N800320-S100   |
| 5mm     | 26mm    | 8.4mm   | 22.5mm  |         | 22   | AG-85-E      | N801025-S2     |
| 22.22mm | 88mm    |         |         |         | 27   | AG-81-E      | N800558-S100   |
| 16.2mm  | 20mm    | —       | —       | —       | 32   | AG-92-A      | N808886-S305   |
| 10.6mm  | 11.1mm  | —       | —       | —       | 35   | AG-96-CC     | W709413-S300   |
| 27.3mm  | 17.0mm  | —       | —       | —       | 35   | AG-96-CB     | W709342-S300   |
| 32.3mm  | 21.0mm  | —       | —       | —       | 35   | AG-96-CA     | W708368-S300   |
| 33mm    | 8.6mm   | —       | —       | —       | 35   | AG-97-B      | W710458-S300   |
| 36mm    | 25.4mm  |         |         |         | 35   | AG-96        | N802127-S      |
| 50.6mm  | 32.0mm  | —       | —       | —       | 36   | AG-96-C      | W709989-S300   |
| 17.5mm  | 17.3mm  | —       | —       | —       | 36   | AG-97-C      | W708753-S300   |
| 9.8mm   | 10mm    | 6.1mm   | 3.75mm  |         | 41   | AG-102       | E662312-S      |
| 16.0mm  | —       | —       | 9.0mm   | —       | 41   | AG-102-B     | W704044-S437M  |
| 11.6mm  | 36mm    | 5.2mm   |         |         | 48   | AG-48-AD     | N807947-S100   |
| 74mm    | 24.5mm  | 21.5mm  |         |         | 48   | AG-103       | ★ N803133-S2   |
| 50mm    | 21mm    | 16mm    |         |         | 49   | AG-104       | ★ N803284-S100 |
| 40mm    | 12.0mm  | 12.0mm  | —       | —       | 51   | AG-115-A     | W708856-S300   |
| 2.3mm   | 17mm    | —       | —       | —       | 52   | AG-115-A     | W705305-S407   |
| 2.3mm   | 17mm    | —       | —       | —       | 52   | AG-115-A     | W705305-S426   |
| 3.8mm   | 15.0mm  |         |         |         | 52   | AG-106-D     | W700536-S305   |
| 5mm     | 12.0mm  |         |         |         | 52   | AG-106-E     | W703570-S307   |
| 8.3mm   | 11.9mm  |         |         |         | 52   | AG-65-AD     | N811298-S424   |
| 11.5mm  | 18.5mm  |         |         |         | 53   | AG-107       | E662254-S71M   |
| 4.7mm   | 7.5mm   |         |         |         | 56   | AG-110       | E865238-S      |
| 34.3mm  | 25.0mm  |         |         |         | 56   | AG-110-A     | N808731-S      |
| 16.7mm  | 11.7mm  |         |         |         | 58   | AG-110       | N808173-S100   |
| 22.8mm  | 11.2mm  | —       | —       | —       | 59   | AG-112       | W708021-S      |
| 10.9mm  | 7.3mm   | —       | —       | —       | 61   | AG-116       | W704817-S426   |
| 14.7mm  | 10.1mm  | 3mm     |         |         | 63   | AG-114       | N807872-S32B   |
| 9.0mm   | —       | —       | —       | —       | 67   | AG-123-A     | ★ W707416-S300 |
| 12.0mm  | 16.81mm | 8.7mm   | —       | —       | 69   | AG-124       | W703895-S407   |
| 9.6mm   | 13.7mm  |         |         |         | 72   | AG-129       | N803768-S      |
| 10.12mm | 13.75mm | —       | —       | —       | 72   | AG-129-F     | N803768-S100   |
| 10.12mm | 13.75mm | —       | —       | —       | 72   | AG-129-C     | N808941-S      |
| 17.5mm  | 11.75mm |         |         |         | 72   | AG-129-A     | N803822-S      |
| 9.2mm   | 8mm     |         |         |         | 75   | AG-133       | E865220-S      |
| 25mm    | 16mm    | 17.5mm  |         |         | 76   | AG-134-A     | W708112-S300   |
| 35mm    | 12mm    | —       | —       |         | 76   | AG-134-D     | W710870-S300   |
| 16.8mm  | 7.5mm   | 8.13mm  | —       | —       | 77   | AG-135-B     | N802769-S100   |
| 25.9mm  | 20.0mm  | 10.4mm  | —       | —       | 77   | AG-135-C     | N709476-S300   |
| 28mm    | 6.4mm   | 11.13mm | —       | —       | 77   | AG-135-A     | W708751-S300   |
| 25mm    | 24mm    |         |         |         | 80   | AG-138       | N804099-S      |
| 16mm    | 20mm    |         |         |         | 81   | AG-139-A     | ★ N803719-S32B |
| 12mm    | 12mm    | 12mm    | 20      | 80      | 84   | AG-141-B     | W707239-S301   |
| 15.8mm  | 55.2mm  |         |         |         | 84   | AG-141-A     | N808363-S100   |
| 22mm    | 31mm    |         |         |         | 85   | AG-143       | N803748-S100   |
| 10mm    | 14mm    |         |         |         | 86   | AG-144-B     | W705923-S300   |
| 17.4mm  | 41.0mm  | 29.0mm  | —       | —       | 86   | AG-144-A     | N803293        |
| 61.12mm | 25.40mm | 81.3mm  |         |         | 87   | AG-145-A     | 389840-S       |
| 20.5mm  | 12.9mm  |         |         |         | 89   | AG-147-A     | N805273-S36MB  |
| 35mm    | 19mm    |         |         |         | 89   | AG-147       | E865433-S81    |
| 6.1mm   | 18.7mm  | —       | —       | —       | 91   | AG-149-A     | W708020-S424   |
| 14.3mm  | 40mm    | —       | —       | —       | 92   | AG-129-D     | N811235-S305   |
| 14.5mm  | 20mm    |         |         |         | 92   | AG-151       | ★ E864302-S74  |

(continued)

# Standard and Utility Parts Catalog

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## PH-54(N)11 CLIP — SPECIAL — METRIC (Cont'd)

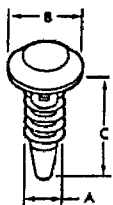
| A       | B       | C       | D      | E | TYPE | LOCATOR CODE | PART NUMBER    |
|---------|---------|---------|--------|---|------|--------------|----------------|
| 15mm    | 22.9mm  |         |        |   | 92   | AG-153-A     | N807455-S100   |
| 17.6mm  | 15mm    | —       | —      | — | 92   | AG-129-E     | W700767-S301   |
| 29.0mm  | 13mm    | —       | —      | — | 92   | AG-153-AA    | N800968-S436   |
| 15mm    | 22.2mm  | 22.4mm  |        |   | 94   | AG-153       | ★ E865471-S    |
| 15mm    | 18mm    | 13mm    |        |   | 95   | AG-154       | ★ E865279-S    |
| 14mm    | 25mm    | 18.5mm  |        |   | 96   | AG-155       | ★ N804098-S    |
| 12.5mm  | 41.4mm  |         |        |   | 97   | AG-156       | ★ N804599-S100 |
| 9mm     | 8.5mm   | 10mm    |        |   | 98   | AG-157       | ★ E864260-S    |
| 31mm    | 7.5mm   | 5.5mm   | 1.7mm  |   | 99   | AG-217       | W702798-S300   |
| 43.5mm  | 40mm    | 25mm    | 15mm   |   | 99   | AG-158       | ★ E865409-S    |
| 62.0mm  | 21.5mm  | 16.0mm  | 12.0mm |   | 99   | AG-158-A     | ★ W700109-S300 |
| 38mm    | 32.5mm  | 7.5mm   |        |   | 100  | AG-159       | ★ N803094-S    |
| 26.5mm  | 7.5mm   | 21mm    |        |   | 101  | AG-160       | ★ N804900-S    |
| 30.5mm  | 7.0mm   |         |        |   | 101  | AG-160-C     | ★ N804917-S    |
| 17.80mm | 5.35mm  | 11.60mm |        |   | 102  | AG-161       | N803749-S32    |
| 45.8mm  | 15.7mm  |         |        |   | 103  | AG-162       | ★ N804727-S100 |
| 47.4mm  | 25.4mm  | —       | —      | — | 103  | AG-162-A     | N811286-S301   |
| 41mm    | 15.5mm  |         |        |   | 104  | AG-163       | ★ E865652-S100 |
| 87mm    | 28.5mm  |         |        |   | 105  | AG-164       | N804980-S100   |
| 10.0mm  | 35.14mm | 20.75mm |        |   | 106  | AG-165-A     | N808047-S      |
| 23mm    | 16.3mm  |         |        |   | 106  | AG-165       | ★ E865474-S    |
| 28mm    | 17.4mm  | 13.65mm |        |   | 106  | AG-166       | N803293-S      |
| 12.7mm  | 11.5mm  | 6mm     |        |   | 107  | AG-166-E     | ★ N804355-S2   |
| 38mm    | 9mm     | .76mm   |        |   | 108  | AG-167-E     | ★ N803885-S100 |
| 12mm    | 14mm    | 90mm    |        |   | 109  | AG-169-F     | W704222-S300   |
| 16mm    | 18.42mm |         |        |   | 109  | AG-169-E     | ★ U801132-S81  |
| 10mm    | 7mm     | 4.5mm   |        |   | 110  | AG-170-E     | ★ N805360-S    |
| 10mm    | 7mm     | 7mm     |        |   | 111  | AG-171-E     | ★ N805358-S    |
| 12mm    | 13mm    | 4.6mm   |        |   | 112  | AG-172-E     | ★ N805359-S    |
| 19mm    | 13mm    | 2.3mm   |        |   | 112  | AG-172-F     | W700932-S300   |
| 23.6mm  | 18.5mm  | 4.2mm   |        |   | 113  | AG-173-E     | N805350-S      |
| 56.4mm  | 26.4mm  | 9.5mm   |        |   | 114  | AG-174-E     | ★ U800988-S100 |
| 13.8mm  | 14mm    |         |        |   | 115  | AG-175-D     | ★ N804775-S32B |
| 14.6mm  | 14mm    |         |        |   | 115  | AG-175-E     | ★ N805188-S32B |
| 14.7mm  | 6.35mm  | 22.9mm  |        |   | 116  | AG-176-E     | ★ N804836-S53B |
| 4.8mm   | 8.4mm   | 6.8mm   |        |   | 117  | AG-179-J     | ★ N807167-S    |
| 12mm    | 9mm     | 12.5mm  |        |   | 117  | AG-177-E     | ★ N805943-S    |
| 14mm    | 20mm    | 12mm    |        |   | 117  | AG-177-EZ    | ★ W703920-S300 |
| 30.0mm  | 4.7mm   | 11mm    | —      | — | 117  | AG-176-EA    | W700858-S300   |
| 4.7mm   | 27.8mm  | 51.2mm  |        |   | 118  | AG-179-H     | ★ N807752-S    |
| 6.7mm   | 33.2mm  | 20.6mm  |        |   | 118  | AG-179-G     | ★ N807754      |
| 35.8mm  | 18.6mm  | —       | —      | — | 118  | WN-1         | W709707-S300   |
| 66.7mm  | 46.2mm  |         |        |   | 118  | AG-178-E     | N802770-S      |
| 2.5mm   | 19mm    | 6mm     |        |   | 119  | AG-179-M     | W701378-S300   |
| 2.9mm   | 18.0mm  |         |        |   | 119  | AG-179-F     | N803434-S      |
| 6.4mm   | 23mm    | 11.9mm  |        |   | 119  | AG-179-E     | N805996-S      |
| 7.0mm   | 11.0mm  | 5.0mm   | —      | — | 119  | AG-179-Z     | ★ W701025-S301 |
| 12.95mm | 19.45mm | 4.06mm  | —      | — | 120  | AG-180-D     | N807465-S403   |
| 12.95mm | 19.45mm | 4.06mm  | —      | — | 120  | AG-180-D     | ★ N807465-S900 |
| 15.9mm  | 18.5mm  | 4.0mm   | —      | — | 120  | AG-180-E     | W709919-S438   |
| 19.6mm  | 6.4mm   | 3.3mm   |        |   | 120  | AG-180-E     | ★ N806369-S    |
| 9.5mm   | 16.5mm  | 12.5mm  |        |   | 121  | AG-190-E     | N806494-S32    |
| 9.6mm   | 17.0mm  | 11.4mm  |        |   | 121  | AG-190-J     | ★ N806075-S32  |
| 9.6mm   | 19.7mm  | 13.1mm  |        |   | 121  | AG-211-B     | N806494-S32    |
| 9.6mm   | 24.8mm  | 13.4mm  |        |   | 121  | AG-190-G     | W703146-S305   |
| 10mm    | 17.0mm  | 13.1mm  | —      | — | 121  | AG-190-A     | W700970-S309U  |
| 10.25mm | 10mm    | 5.1mm   |        |   | 121  | AG-190-D     | N806896-S32    |
| 10.25mm | 10mm    | 5.1mm   | —      | — | 121  | AG-190-D     | N806896-S32B   |
| 10.3mm  | 11.5mm  | 10.5mm  |        |   | 121  | AG-190-L     | N807582-S32B   |
| 12.0mm  | 14.9mm  | 13.0mm  | —      | — | 121  | AG-190-M     | ★ W701882-S414 |
| 12.0mm  | 14.9mm  | 13.0mm  | —      | — | 121  | AG-190-N     | W701882-S424A  |
| 12.0mm  | 14.9mm  | 13.0mm  | —      | — | 121  | AG-190-P     | W701882-S434   |
| 13mm    | 16mm    | 12mm    |        |   | 121  | AG-48-A      | ★ W704021-S434 |

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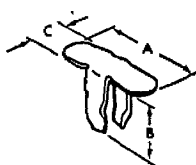
| PH-54(N)11 CLIP — SPECIAL — METRIC (Cont'd) |         |        |        |        |      |              |                |
|---|---------|--------|--------|--------|------|--------------|----------------|
| A   | B       | C      | D      | E      | TYPE | LOCATOR CODE | PART NUMBER    |
| 14.3mm                                      | 12.5mm  | 8.4mm  |        |        | 121  | AG-190-F     | W702274-S300   |
| 17.80mm                                     | 12.65mm | 5.35mm |        |        | 121  | AG-190-H     | N803749-S2     |
| 19.0mm                                      | 23.2mm  | 9.8mm  |        |        | 121  | AG-190-K     | N806238-S      |
| 12.7mm                                      | 10.4mm  |        |        |        | 122  | AG-200-C     | N804978-S32B   |
| 15.3mm                                      | 20.0mm  | —      | —      | —      | 122  | AG-200-D     | ★ W701320-S305 |
| 30mm  | 30.25mm | 6.5mm  |        |        | 123  | AG-210       | ★ N807392-S    |
| 9.5mm                                       | 18.0mm  |        |        |        | 124  | AG-211       | ★ N807602-S2   |
| 15.5mm                                      | 20.0mm  | —      |        |        | 124  | AG-211-A     | W702658-S301   |
| 23mm  | 33mm    | 7.9mm  |        |        | 124  | AG-215       | ★ N805262      |
| 30.9mm                                      | 33mm    | 8.4mm  |        |        | 124  | AG-216       | N806537-S55M   |
| 33.0mm                                      | 16.02mm | 4.4mm  |        |        | 124  | AG-215-A     | ★ N806537-S58  |
| 10.0mm                                      | 60.0mm  | 9.5mm  |        |        | 125  | AG-216-A     | N808543-S424   |
| 14.3mm                                      | 32.0mm  | 6.0mm  |        |        | 126  | AG-216-B     | W701093-S300   |
| 10.0mm                                      | 30.5mm  | 1.5mm  |        |        | 127  | AG-216-H     | W701129-S300   |
| 14.0mm                                      | 20.0mm  | 7.50mm |        |        | 128  | AG-216-J     | N807176-S      |
| 18mm  | 26mm    | 11.4mm | 6.5mm  | 1.8mm  | 129  | AG-218       | W700465-S305   |
| 30mm  | 11mm    | 10mm   |        |        | 130  | AG-218-X     | W702304-S300   |
| 30.5mm                                      | 15.0mm  | 23.0mm | 8.9mm  | —      | 130  | AG-218-Y     | W706848-S300   |
| 36.0mm                                      | 19.5mm  |        |        |        | 130  | AJ-1         | N808555-S411   |
| 38.9mm                                      | 14.0mm  | 23.0mm | 16.0mm | 7.7mm  | 130  | AG-218-A     | W703623-S300   |
| 12.8mm                                      | 13.0mm  | 16.8mm | —      | —      | 131  | AG-218-BA    | ★ W704021-S    |
| 12.8mm                                      | 13.0mm  | 16.8mm |        |        | 131  | AG-218-B     | ★ W704021-S304 |
| 12.8mm                                      | 13.0mm  | 16.8mm | —      | —      | 131  | AG-218-BA    | W704021-S309   |
| 15.0mm                                      | 14.0mm  | 17.6mm | —      | —      | 131  | AG-218-BC    | W703557-S301   |
| 15.0mm                                      | 14.0mm  | 17.6mm | —      | —      | 131  | AG-218-BC    | W703557-S407   |
| 18.8mm                                      | 10.2mm  | 8.1mm  |        |        | 132  | AG-218-D     | N806872-S100   |
| 18mm  | 12mm    | 21mm   | —      | —      | 133  | AG-218-GA    | W705370-S300   |
| 19.2mm                                      | 9.75mm  | 11.2mm | —      | —      | 133  | AG-219       | W710088-S403   |
| 21.0mm                                      | 15.0mm  | 48mm   |        |        | 133  | AG-218-G     | W707945-S300   |
| 21.5mm                                      | 12mm    | 6mm    | 9.5mm  | —      | 134  | AG-300-A     | W703962-S300   |
| 33.8mm                                      | 15mm    | 8.7mm  | 17.5mm | —      | 134  | AG-300-B     | W709120-S300   |
| 90.1mm                                      | 53.4mm  | 28.5mm | 19.0mm | 11.0mm | 135  | AG-99-AA     | W709021-S300   |
| 25mm  | 6.6mm   | 7.6mm  | 1.5mm  | —      | 136  | AG-99-BA     | W708393-S300   |
| 34.4mm                                      | 7.2mm   | 3.5mm  | 1.75mm | 1.5mm  | 137  | AG-99-BC     | W708797-S300   |
| 15.0mm                                      | 10.0mm  | 7.2mm  | 17.6mm | —      | 138  | AG-99-BD     | W705990-S305   |
| 42.5mm                                      | 20.0mm  | 13.3mm | 19.3mm | —      | 138  | AG-99-BB     | ★ W709018-S300 |
| 42.5mm                                      | 20.0mm  | 20mm   | 13.3mm | —      | 138  | AG-99-BC     | W709708-S300   |
| 3mm   | 36mm    | 21mm   | 15mm   | 5.5mm  | 139  | AG-99-C      | W709392-S900   |
| 18.0mm                                      | 8.2mm   | 12.7mm | 13.2mm | 15.0mm | 140  | AG-99-D      | W706782-S300   |
| 59.3mm                                      | 43.7mm  | 18.5mm | —      | —      | 141  | AG-99-D      | W710010-S300   |
| 11.0mm                                      | 20.0mm  | 6.2mm  | 6.4mm  | 6.8mm  | 142  | AG-99-E      | W710094-S300   |

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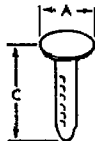
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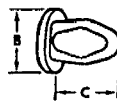
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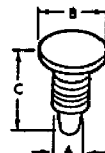
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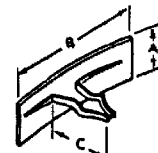
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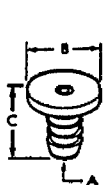
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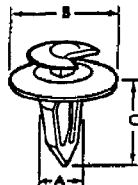
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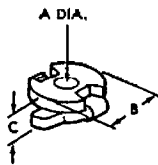
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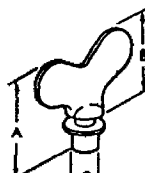
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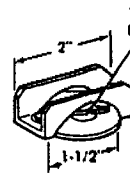
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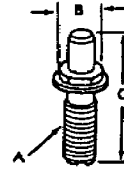
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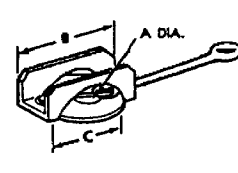
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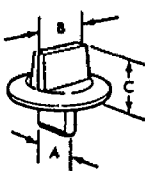
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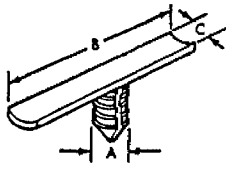
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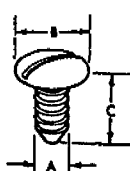
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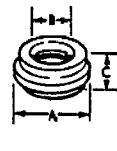
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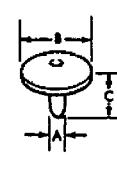
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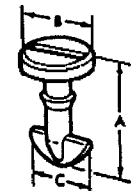
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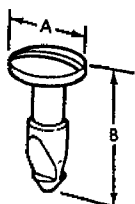
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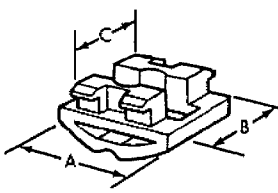
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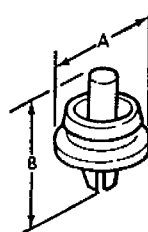
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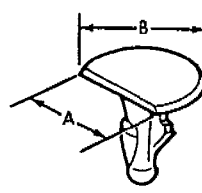
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TYPE 22



TYPE 23



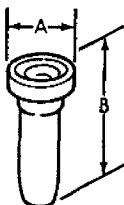
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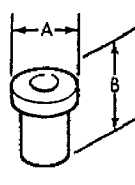
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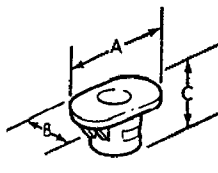
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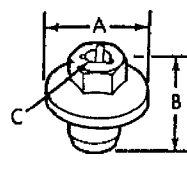
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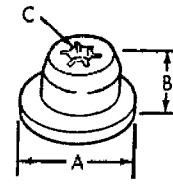
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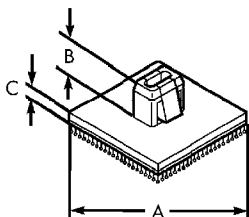
TYPE 29



TYPE 30



TYPE 31



TYPE 32

PH-67  
12/19/2002

(continued)



## FASTENER (Cont'd)

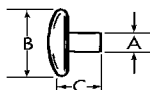
| Metric |        |        |                  |    |         |               |
|--------|--------|--------|------------------|----|---------|---------------|
| M7     | 12mm   | 20mm   | Plastic          | 1  | AH-19-F | ★N801023-S    |
| M7     | 19mm   | 20mm   | Nylon            | 1  | AH-19-E | ★E866076-S    |
| M8.25  | 18.0mm | 22.1mm | Plastic          | 1  | AH-19-J | ★W701380-SSW  |
| M9.2   | 18mm   | 15.7mm | Plastic          | 1  | AH-19-G | ★E866202-S1A  |
| M9.5   | 17mm   | 13mm   |                  | 1  | AH-19-A | ★E866083-SKA  |
| M17.5  |        | 28.5mm | Plastic          | 3  | AH-11-E | ★E844026-S    |
| M20    |        | 19.3mm | Nylon            | 3  | AH-11-F | ★E866257-S    |
|        | 14.2mm | 15.2mm | Plastic          | 4  | AH-12-C | ★E844021-S    |
| M8.75  | 15mm   | 19mm   | Steel            | 5  | AH-8-H  | ★E864148-S76  |
| M8.75  | 15mm   | 22mm   | Steel            | 5  | AH-8-J  | ★E864168-S76  |
| 3.1mm  | 18.6mm | 14.7mm | Plastic          | 8  | AH-24-A | W701374-S     |
| M5     | 20mm   | 20mm   | Plastic          | 8  | AH-24   | E866214-S     |
| M7.9   | 30mm   | 13.5mm | Plastic          | 8  | AH-24-B | W700691-S300  |
| 8.4mm  | 25.0mm | 13.0mm | Plastic          | 8  | AH-8-M  | W700671-S300  |
| 3.9mm  | 13.2mm | 13.0mm | Plastic          | 9  | AH-8-N  | W702412-S300  |
| M5     | 24mm   | 18mm   | Nylon            | 9  | AH-8-G  | ★N801320-S    |
| 6.8mm  | 24.0mm | 22.0mm | Plastic          | 9  | AH-8-KA | W701112-SAA   |
|        |        |        | Med Graphite     |    |         |               |
| 6.8mm  | 24.0mm | 22.0mm | Plastic          | 9  | AH-8-KB | W701112-SAB   |
|        |        |        | Med Parchment    |    |         |               |
| 6.8mm  | 24.0mm | 22.0mm | Plastic          | 9  | AH-8-KD | W701112-SAC   |
|        |        |        | Lt Parchment     |    |         |               |
| 6.8mm  | 24.0mm | 22.0mm | Plastic-Lt Flint | 9  | AH-8-KE | W701112-SAD   |
| 6.8mm  | 24.0mm | 22.0mm | Plastic          | 9  | AH-8-K  | W701112-SSW   |
|        |        |        | Med Opal         |    |         |               |
| 6.8mm  | 24.0mm | 22.0mm | Plastic          | 9  | AH-8-KC | W701112-SSY   |
|        |        |        | Mist Grey        |    |         |               |
| 8.0mm  | 20.0mm | 12.0mm | Plastic          | 9  | AH-8-L  | W700673-S300  |
| M8     | 20mm   | 12.5mm | Plastic          | 9  | AH-8-E  | E864801-S     |
| M8     | 20mm   | 9mm    | Plastic          | 9  | AH-8-C  | ★E864850-S    |
| M6.5   | 15.8mm | 12.7mm | Nylon            | 15 | AH-1    | ★N802445-S    |
| M10.5  | 36.5mm | 10mm   | Nylon            | 16 | AH-2    | ★N802938-S    |
| M2.1   | 20mm   | 20mm   | Plastic          | 17 | AH-3-A  | ★E864188-S    |
| M2.1   | 20mm   | 20mm   | Plastic          | 17 | AH-3-E  | ★E864188-S1A  |
| M2.1   | 20mm   | 20mm   | Plastic          | 17 | AH-3-D  | ★E864188-S1K  |
| M2.1   | 20mm   | 20mm   | Plastic          | 17 | AH-3-G  | ★E864188-S2P  |
| M7     | 19.5mm | 14.3mm | Copolymer        | 17 | AH-3    | ★E866213-SPC  |
| M9.5   | 20mm   | 20mm   | Plastic          | 17 | AH-3-BA | ★E866214-SFA  |
| M9.5   | 20mm   | 20mm   | Plastic          | 17 | AH-3-B  | ★E866214-S1A  |
| M9.5   | 20mm   | 20mm   | Plastic          | 17 | AH-3-C  | ★E866214-S1K  |
| M11    | 30mm   | 12mm   | Plastic          | 17 | AH-3-F  | ★E864311-S    |
| M15    | 9mm    | 5.8mm  |                  | 18 | AH-4    | ★E866088-S    |
| 22.1mm | 13.5mm | 12.2mm |                  | 20 | AH-5    | ★E866054-SW   |
| 11mm   | 21mm   |        | Plastic          | 21 | AH-6    | ★E866064-S101 |

(continued)

## PH-67 FASTENER (Cont'd)

| Metric (Cont'd) |        |         |               |      |              |                |
|-----------------|--------|---------|---------------|------|--------------|----------------|
| A               | B      | C       | MATERIAL      | TYPE | LOCATOR CODE | PART NUMBER    |
| 19mm            | 14.2mm | 12.7mm  |               | 22   | AH-7         | ★ E466025-S    |
| 14mm            | 12.5mm |         |               | 23   | AH-9         | ★ E866253-S    |
| 19mm            | 13mm   | 13.5mm  |               | 24   | AH-13        | ★ E866255-S    |
| 8mm             | 5.6mm  |         |               | 25   | AH-14        | ★ 112858-S71   |
| 13.0mm          | 5.2mm  | Plastic |               | 26   | AH-16-A      | W706114-S300   |
| 13.5mm          | 6.8mm  |         |               | 26   | AH-16        | ★ E866218-S71M |
| M16.9mm         | 7.5mm  |         |               | 26   | AH-19-H      | ★ W702314-S309 |
| 30.0mm          | 20.0mm |         | Metal         | 26   | AH-19-L      | W700641-S301   |
| 3.0mm           | 36.3mm |         | Plastic       | 27   | AH-19-K      | ★ W701221-S300 |
| 6.5mm           | 13mm   |         | Polyethylene  | 27   | AH-17        | ★ E866266-S    |
| 6.2mm           | 7mm    |         | Polyester     | 28   | AH-18        | ★ E866269-S    |
| 18mm            | 12mm   | 10mm    | Nylon         | 29   | AH-23        | ★ E866234-S    |
| 23mm            | 12mm   | 10mm    | Nylon         | 29   | AH-23-A      | ★ E866280-S    |
| 20mm            | 14.5mm | 4.8mm   | Plastic       | 30   | AH-25-E      | ★ E866259-S    |
| 22mm            | 11mm   | 5.1mm   | Plastic       | 31   | AH-26-E      | ★ E890450-S    |
| 26.0mm          | 8.6mm  | 2.8mm   | Dual Lock 250 | 32   | AH-27        | N808542-S      |

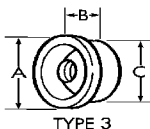
## PH-66 FASTENER — BUTTON



PH66

| Metric |        |        |          |              |               |
|--------|--------|--------|----------|--------------|---------------|
| A      | B      | C      | MATERIAL | LOCATOR CODE | PART NUMBER   |
| M3.2   | 19.2mm | 11.2mm | Plastic  | AH-30-A      | ★ E866043-S1A |
| M4     | 13mm   | 5.6mm  | Steel    | AH-30        | ★ E866016-S71 |

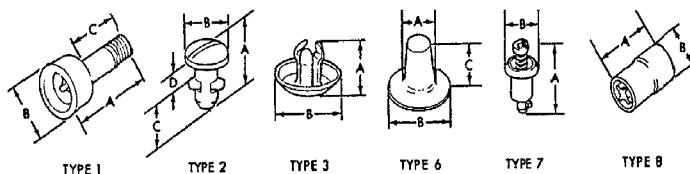
## PH-233 FASTENER — SOCKET



PH233

| Metric |     |      |          |      |              |                |
|--------|-----|------|----------|------|--------------|----------------|
| A      | B   | C    | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER    |
| M12.2  | 3mm | 10mm | Brass    | 3    | AH-15-E      | ★ E490002-S100 |

## PH-97 FASTENER — STUD



PH-97

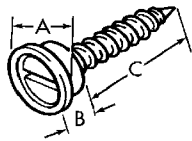
| DIAMETER | THREAD | A        | B      | C      | D     | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|--------|----------|--------|--------|-------|------|--------------|---------------|
| No. 8    | 32     | 5/8"     | 25/64" | 15/32" |       | 1    | HH-16        | 359274-S100   |
| 3/8"     |        |          | 5/8"   |        |       | 2    | HH-17-AD     | ★ 388245-S100 |
| 7/32"    |        | 11/32"   | 5/8"   |        |       | 3    | HH-17-N      | ★ 358592-S2   |
|          |        | 1-11/32" | 1/2"   | 1/8"   | 5/16" | 7    | HH-18-EE     | ★ 387828-S13  |
|          |        | 1-13/32" | 1/2"   | 1/8"   | 5/16" | 7    | HH-18-E      | ★ 387828-S    |

# Standard and Utility Parts Catalog

**PH-97      FASTENER — STUD (Cont'd)**

| Metric |       |      |      |              |               |
|--------|-------|------|------|--------------|---------------|
| A      | B     | C    | TYPE | LOCATOR CODE | PART NUMBER   |
| M10    | 11mm  | 15mm | 2    | AH-21        | ★ E866034-SFA |
| M4     | 10mm  | 9mm  | 6    | AH-20        | ★ E866015-S71 |
| M16    | 9.3mm |      | 8    | AH-22        | ★ E866260-S   |

**PH-73      FASTENER — STUD**

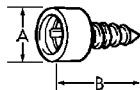


TYPE 1

PH73

| Metric       |        |      |      |      |              |                |
|--------------|--------|------|------|------|--------------|----------------|
| NOMINAL SIZE | THREAD | A    | B    | TYPE | LOCATOR CODE | PART NUMBER    |
| M4.2         | 1.41mm | 10mm | 5mm  | 1    | AU-33-EC     | ★ N806395-S100 |
| M8           | 1.25mm | 9mm  | 25mm | 1    | AU-33-E      | ★ E810032-S71  |

**PH-75      FASTENER — STUD — SELF TAPPING — PAN HEAD — CROSS RECESSED**

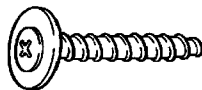


TYPE 2

PH75

| DIAMETER | THREAD | A    | B    | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|--------|------|------|------|--------------|---------------|
| No. 8    | 15     | 3/8" | 3/8" | 2    | HH-34-A      | ★ 370357-S100 |

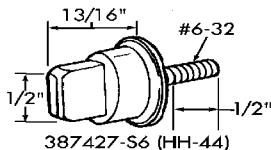
**PH-235      FASTENER — TRIM — SCREW and WASHER**



PH235

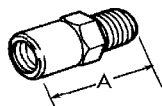
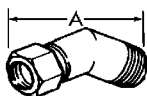
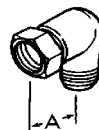
| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 10   | 12     | 1/2"   | HH-39-A      | ★ 374573-S9 |

**PH-70      FASTENER — TURNBUTTON**



387427-S6 (HH-44)

PH70

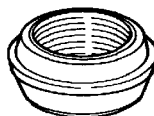
**PH-750**
**FITTING ASSY. — CONNECTOR QUICK RELEASE**

**TYPE 1**

**TYPE 2**

**TYPE 3**
**PH750**

| TUBE SIZE | THREAD         | A        | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|-----------|----------------|----------|----------|------|--------------|--------------|
| 1/8"      | 1/8"-27*       | 1-5/32"  | Brass    | 1    | II-243-E     | ★387780-S100 |
| 1/8"      | 1/8"-27*       | 1-5/32"  | Brass    | 1    | II-243-EE    | ★388525-S101 |
| 1/4"      | 1/8"-27*       | 1-9/32"  | Brass    | 1    | II-250-A     | ★387782-S100 |
| 1/2"      | 1/4"-18*       | 1-13/16" | Brass    | 1    | II-250-F     | ★387792-S100 |
| .264      | 9/16"-18+11/16 | 1.28     |          | 1    | II-250-G     | 391647-S*    |
| 3/8"      | 1/4"-18*       | 1-1/32"  | Brass    | 2    | II-251-A     | ★387798-S100 |
| 3/8"      | 3/8"-18*       | 1-1/8"   | Brass    | 2    | II-251-B     | ★387797-S100 |
| 1/2"      | 1/2"-14*       | 1-9/32"  | Brass    | 2    | II-251-C     | ★387796-S100 |
| 1/8"      | 1/8"-27*       | 1-5/8"   | Brass    | 3    | II-252-J     | ★387781-S100 |
| 3/8"      | 3/8"-18*       | 1-7/32"  | Brass    | 3    | II-252-C     | ★387795-S100 |
| 7/16"     | 7/16"-20*      | 1-1/4"   | Brass    | 3    | II-252-E     | ★377609-S101 |
| 1/2"      | 1/2"-14*       | 1-15/32" | Brass    | 3    | II-252-D     | ★387790-S100 |

\* Includes "O" Ring

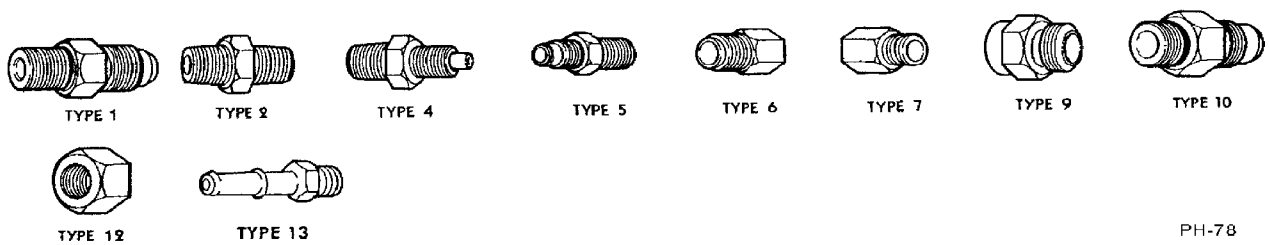
**PH-80**
**FITTING — COMPRESSION SLEEVE**

**TYPE 1**

**TYPE 2**

**TYPE 3**
**PH80**

| DIAMETER | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|----------|----------|------|--------------|-------------|
| 3/16"    | Brass    | 1    | II-54        | ★353288-S   |
| 1/4"     | Brass    | 1    | II-54-X      | ★357940-S   |
| 3/8"     | Brass    | 1    | II-55-AD     | ★384952-S   |
| 1/2"     | Brass    | 1    | II-55-AK     | ★384953-S   |
| 3/4"     | Brass    | 1    | II-55-AR     | ★384954-S   |
| 1/4"     | Brass    | 2    | II-55-Y      | 383800-S    |
| 3/8"     | Brass    | 2    | II-55-Z      | ★383801-S   |
| 1/2"     | Brass    | 2    | II-56-B      | ★383802-S   |
| 5/8"     | Brass    | 3    | II-58-E      | ★388667-S2  |

## PH-78      FITTING — ADAPTER



| TUBE SIZE | MALE THREAD          | OVERALL LENGTH | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|-----------|----------------------|----------------|----------|------|--------------|--------------|
|           | 3/4"-16 & 3/4"-16    | 1-1/2"         | Steel    | 1    | II-35-B      | ★384074-S7-8 |
|           | 3/4"-16 & 7/8"-14    | 1-1/2"         | Steel    | 1    | II-35-BA     | ★384075-S7-8 |
| 5/16"     | 1/4"-18 & 1/2"-20    | 1-7/16"        | Steel    | 1    | II-36-H      | ★389307-S100 |
| 5/16"     | 1/4"-18 & 1/2"-20    | 1-7/16"        | Steel    | 1    | II-36-HA     | ★389307-S101 |
| 5/16"     | 1/2"-20 & 1/8"-27    | 1-5/32"        | Steel    | 1    | II-32        | ★359279-S    |
| 3/8"      | 1/8"-27 & 9/16"-18   | 1-1/4"         | Steel    | 1    | II-36-G      | ★389308-S100 |
| 3/8"      | 1/2"-27 & 9/16"-18   | 1-5/32"        | Steel    | 1    | II-36-D      | ★388633-S36  |
| 1/2"      | 3/4"-16 & 9/16"-18   | 19/64"         | Steel    | 1    | II-35-E      | ★377048-S    |
| 5/8"      | 5/8"-18 & 3/4"-16    | 1-13/32"       | Steel    | 1    | II-33-A      | ★354218-S8   |
| 5/8"      | 7/8"-14 & 7/8"-14    |                | Steel    | 1    | II-33-B      | ★390029-S36  |
|           | 1/8"-27 & 1/8"-27    | 15/16"         | Brass    | 2    | II-37        | ★354338-S    |
|           | 1/2"-14 & 1/2"-14    | 1-7/8"         | Steel    | 2    | II-63-K      | ★385604-S36  |
|           | 1/2"-14 & 3/4"-14    | 1-31/32"       | Steel    | 2    | II-37-AG     | ★384843-S    |
|           | 9/16"-18 & 9/16"-18  | 1-3/16"        | Steel    | 2    | II-37-A      | ★380967-S36  |
|           | 3/4"-16 & 9/16"-18   | 1-5/16"        | Steel    | 2    | II-37-B      | ★380968-S7   |
| 1/8"      | 1/8"-27 & 5-16"-24   | 25/32"         | Brass    | 2    | II-38-D      | ★383879-S    |
| 3/16"     | 1/8"-27 & 3/8"-24    | 27/32"         | Brass    | 2    | II-38        | ★353285-S    |
| 1/4"      | 1/8"-27 & 7/16"-20   | 1-15/64"       | Steel    | 2    | II-32-A      | ★389707-S100 |
| 7/16"     | 3/8"-18 & 3/8"-18    | 1-13/32"       | Brass    | 2    | II-38-A      | ★370689-S    |
| 1/2"      | 3/8"-18 & 13/16"-18  | 1-5/32"        | Brass    | 2    | II-38-F      | ★389149-S100 |
| 3/8"      | 17/32"-24 & 5/8"-18  | 1-17/32"       | Brass    | 4    | II-39-B      | ★384231-S-ED |
|           | 5/8"-18 & 1/4"-18    | 1-7/16"        | Brass    | 5    | II-39-G      | ★385122-S    |
| 1/4"      | 7/16"-20 & 3/4"-14   | 1-11/16"       | Steel    | 5    | II-39-E      | ★388459-S100 |
| 3/8"      | 3/8"-18              | 27/32"         | Steel    | 5    | II-39-H      | ★389642-S101 |
| 3/8"      | 7/16"-20 & 3/8"-24   | 1-3/8"         | Brass    | 5    | II-39-C      | ★388741-S100 |
| 3/8"      | 1"-11-1/2" & 5/8"-18 | 2-1/16"        | Steel    | 5    | II-39-D      | ★388460-S100 |

**PH-78**
**FITTING — ADAPTER (Cont'd)**

| TUBE SIZE | MALE THREAD         | OVERALL LENGTH | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER   |
|-----------|---------------------|----------------|----------|------|--------------|---------------|
| 1/2"      | 1/2"-14 & 5/8"-18   | 1-11/16"       | Brass    | 5    | II-40        | ★ 372447-S    |
| 1/4"      | 1/4" to 1/8"        | 25/32"         | Brass    | 6    | II-40-D      | ★ 353107-S101 |
| 1/4"      | 3/8"-24 & 7/16"-24■ | 27/32"         | Brass    | 6    | II-40-B      | 383956-S      |
| 3/8"      | 3/8"-18 & 1/2"-18■  | 1-15/32"       | Brass    | 6    | II-227       | ★ 358919-S100 |
| 1/2"      | 1/2"-14             | 1/8"-27        | Steel    | 6    | II-227-A     | 390070-S101   |
| 1/2"      | 1/2"-14             | 1-5/16"        | Brass    | 6    | II-40-AC     | ★ 383878-S100 |
| 1/2"      | 1/2"-14             | 1-5/16"        | Brass    | 6    | II-40-AD     | 383878-S101   |
| 1/4"      | 1/8"-27 & 1/4"-18   | 15/16"         | Brass    | 7    | II-40-D      | 372210-S100   |
| 3/8"      | 3/8"-24 & 7/16"-20  | 1-3/64"        | Steel    | 7    | II-40-E      | 389977-S100   |
| 1/8"      | 1/8"-27             | 7/8"           | Brass    | 8    | II-36-F      | ★ 358016-S100 |
| 1/8"      | 1/8"-27             | 7/8"           | Brass    | 8    | II-36-I      | 358016-S101   |
|           | 5/8"-18 & 1/4"-18■  | 1-1/4"         | Brass    | 9    | II-40-FD     | ★ 385824-S    |
| 1/4"      | 1/4"-18             | 1-11/32"       | Steel    | 9    | II-40-FK     | ★ 388936-S36  |
| 1/4"-18   | M22                 | 1-27/64"       | Brass    | 9    | II-40-FA     | ★ U350518-S   |
| 3/8"      | 7/16"-20 & 9/16"-18 | 1-5/16"        | Steel    | 10   | II-39-F      | ★ 389904-S36  |
| 9/16"     | 9/16"-18            | 2-19/64"       | Steel    | 10   | II-39-G      | 391644-S      |
| 11/16"    | 1"-12■              | 43/64"         | Steel    | 12   | II-62-G      | ★ 385613-S36  |
| 3/8"      | 5/8"-18             | 1-7/8"         | —        | 13   | II-96        | ★ 390538-S    |

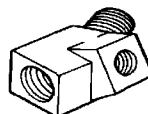
■ Female Thread

**PH-200**
**FITTING — CONNECTOR**


TYPE 1



TYPE 3



TYPE 5

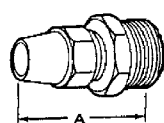
PH200

| TUBE SIZE | FEMALE THREAD      | MALE THREAD | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|-----------|--------------------|-------------|----------|------|--------------|-------------|
| 5/16"     | 7/16"-24           |             | Brass    | 1    | II-57        | ★ 357852-S  |
| 1/4"      | 1/8"-27 & 7/16"-24 |             | Brass    | 3    | II-59        | ★ 352336-S  |
| 5/8"      | 1/4"-18 & 5/8"-18  | 3/8"-18     | Brass    | 5    | II-59-D      | ★ 381964-S  |

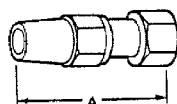
# Standard and Utility Parts Catalog

PH-237

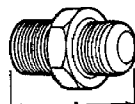
FITTING — CONNECTOR ASSY.



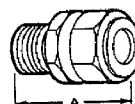
TYPE 1



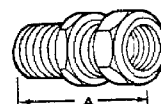
TYPE 2



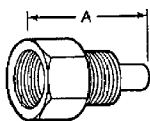
TYPE 3



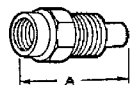
TYPE 4



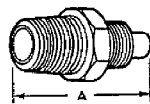
TYPE 5



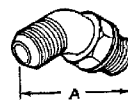
TYPE 6



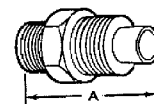
TYPE 7



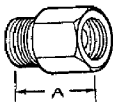
TYPE 8



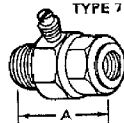
TYPE 9



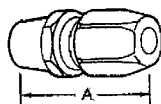
TYPE 10



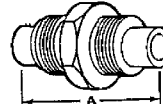
TYPE 11



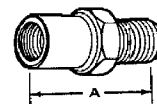
TYPE 12



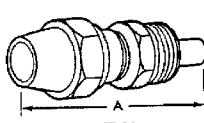
TYPE 13



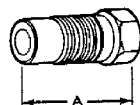
TYPE 14



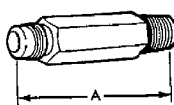
TYPE 15



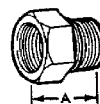
TYPE 16



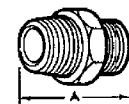
TYPE 17



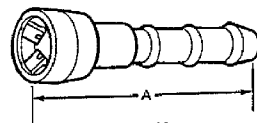
TYPE 20



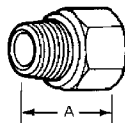
TYPE 21



TYPE 22



TYPE 23



TYPE 24

PH-237  
1/14/1999

| TUBE SIZE | THREAD     | A        | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|-----------|------------|----------|----------|------|--------------|--------------|
| 1/4"      | 1/8"-27    | 1-1/4"   | Brass    | 1    | II-25-A      | ★377326-S    |
| 1/4"      | 1/8"-27    | 1-15/32" | Brass    | 1    | II-25        | ★357971-S    |
| 3/8"      | 3/8"-18    | 2-1/16"  | Brass    | 1    | II-26        | ★352992-S    |
| 3/8"      | 9/16"-18   | 1-11/32" | Steel    | 1    | II-26-D      | ★390519-S100 |
| 1/2"      | 11/16"-20  | 1-21/32" | Brass    | 1    | II-26-B      | ★383835-S    |
| 5/8"■     | 1/2"       | 2-15/32" | Brass    | 1    | II-26-BB     | ★352982-S100 |
| 5/16"     | 1/8"-27    | 1-5/8"   | Steel    | 2    | II-26-E      | 390603-S100  |
| 1/4"      | 1/8"-27    | 1-3/8"   | Brass    | 2    | II-26-C      | ★352928-S    |
| 3/8"      | 1/8"-27    | 1-11/16" | Steel    | 2    | II-27-B      | 390716-S100  |
| 3/8"      | 1/4"-18    | 2-1/16"  | Brass    | 2    | II-27        | ★370033-S    |
| 5/8"      | 1/2"-14    | 2-5/8"   | Brass    | 2    | II-27-A      | ★375634-S    |
|           | 7/16"-14   | 1-31/32" | Steel    | 3    | II-28-CK     | ★385299-S†   |
|           | 1-1/16"-14 |          |          |      |              |              |
|           | 9/16"-18   | 1-5/16"  | Steel    | 3    | II-28-BC     | ★390504-S7†  |
|           | 9/16"-18   | 1-1/4"   | Steel    | 3    | II-28-BA     | 390505-S7†   |
|           | 3/4"-16    |          |          |      |              |              |
|           | 9/16"-18   | 1-17/32" | Steel    | 3    | II-28-BB     | ★383781-S    |
|           | 7/8"-14    |          |          |      |              |              |
|           | 7/8"-14    | 2-3/64"  | Steel    | 3    | II-28-EE     | ★390802-S101 |
|           | 1-1/16"-12 |          |          |      |              |              |
| 3/16"     | 1/8"-27    | 13/16"   | Brass    | 3    | II-28-H      | ★390275-S    |
|           | 7/16"-24   |          |          |      |              |              |
| 1/4"      | 7/16"-24   | 1"       | Steel    | 3    | II-28-T      | ★386009-S8   |
|           | 3/8"-24    |          |          |      |              |              |
| 1/4"      | 7/16"-24   | 1-1/8"   | Steel    | 3    | II-28-S      | ★386010-S8   |
|           | 3/8"-24    |          |          |      |              |              |
| 1/4"      | 7/16"-20   | 13/16"   | Brass    | 3    | II-28-L      | ★390368-S    |
|           | 1/2"-24    |          |          |      |              |              |
| 5/16"     | 1/8"-27    | 1-15/64" | Steel    | 3    | II-28-U      | ★389584-S101 |
|           | 1/2"-20    |          |          |      |              |              |
| 5/16"     | 1/8"-27    | 1-15/64" | Steel    | 3    | II-28-UA     | ★389584-S100 |
|           | 1/2"-20    |          |          |      |              |              |

# Standard and Utility Parts Catalog

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## PH-237 FITTING — CONNECTOR ASSY. (Cont'd)

| TUBE SIZE  | THREAD                | A        | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|------------|-----------------------|----------|----------|------|--------------|--------------|
| 5/16"      | 1/2"-20<br>9/16"-24   | 25/32"   | Brass    | 3    | II-28-UB     | 390003-S     |
| 3/8"       | 5/8"-18<br>1/4"-18    | 7/16"    | Brass    | 3    | II-28-CA     | ★375762-S100 |
| 1/4"       | 1/4"-18<br>7/16"-20   | 1-7/16"  | Steel    | 3    | II-28-CB     | ★389581-S101 |
| 1/4"       | 1/4"-18<br>7/16"-20   | 1-7/16"  | Steel    | 3    | II-28-CC     | ★389581-CC   |
| 5/8"       | 5/8"-18<br>1/2"-14    | 1-3/4"   | Brass    | 3    | II-28-C      | ★379264-S    |
| 5/8"       | 1/2"-14<br>1"-18      | 1-7/16"  | Brass    | 3    | II-28-CE     | ★381831-S101 |
| 5/8"       | 7/8"-14<br>3/8"-18    | 1-41/64" | Steel    | 3    | II-28-E      | ★389926-S101 |
| 1/8"       | 1/16"-27              | 57/64"   | Brass    | 4    | II-28-J      | ★381774-S    |
| 1/8"       | 1/8"-27               | 1-1/32"  | Brass    | 4    | II-28-G      | ★373404-S    |
| 1/4"       | 1/8"-27               | 1-3/32"  | Brass    | 4    | II-28-F      | ★351245-S    |
| 1/4"       | 1/4"-18<br>1/4"-18    | 1-9/16"  | Steel    | 5    | II-28-K      | ★380670-S7-8 |
| 1/4"       | 1/4"-24               | 2-5/8"   | Steel    | 5    | II-28-LA     | ★391612-S36  |
| 3/8"       | 1/4"-18<br>17/32"-24  | 1-17/32" | Brass    | 6    | II-29-CR     | ★384969-S    |
| 1/2"-5/16" | 1/2"-20<br>11/16"-20  | 1-21/64" | Brass    | 6    | II-29-A      | ★384202-S    |
| 3/4"       | 7/18"-18<br>1"-18     | 2-1/16"  | Brass    | 6    | II-29-AB     | ★384047-S    |
|            | 3/4"-16<br>11/16"-20  | 1-11/16" | Brass    | 7    | II-29-CD     | ★384253-S    |
| 1/4"       | 1/8"-27<br>7/16"-24   | 1-1/8"   | Brass    | 7    | II-29-B      | ★384057-S    |
| 1/4"       | 7/16"-24<br>1/8"-27   | 1-11/64" | Brass    | 8    | II-29-BL     | ★383833-S100 |
| 1/4"       | 7/16"-24<br>1/4"-18   | 53/64"   | Brass    | 8    | II-40-H      | ★383826-S100 |
| 1/4"       | 1/4"-18 &<br>7/16"-24 | 1-5/16"  | Brass    | 8    | II-40-I      | 383826-S102  |
| 1/4"       | 7/16"-24<br>3/8"-18   | 1-13/32" | Brass    | 8    | II-40-HA     | ★383827-S100 |
| 3/8"       | 1/4"-18<br>17/32"-24  | 1-17/32" | Brass    | 8    | II-29-BS     | ★384088-S100 |
| 3/8"       | 17/32"-24<br>1/8"-27  | 1-3/8"   | Brass    | 8    | II-40-HB     | ★383828-S100 |
| 3/8"       | 17/32"-24<br>1/4"-18  | 1-9/16"  | Brass    | 8    | II-29-BM     | ★383834-S100 |
| 3/8"       | 17/32"-24<br>3/8"-18  | 1-1/4"   | Brass    | 8    | II-40-HC     | ★383808-S100 |
| 1/2"       | 11/16"-20<br>1/4"-18  | 1-23/32" | Brass    | 8    | II-40-HD     | ★383829-S100 |
| 1/2"       | 11/16"-20<br>3/8"-18  | 1-45/64" | Brass    | 8    | II-29-BN     | ★383830-S100 |
| 1/2"       | 11/16"-20<br>1/2"-14  | 1-29/32" | Brass    | 8    | II-29-BP     | ★383831-S100 |
| 1/2"       | 13/16"-18<br>1/2"-14  | 2-1/16"  | Brass    | 8    | II-29-BT     | ★388636-S100 |
| 3/4"       | 1"-18<br>1/2"-14      | 2-3/16"  | Brass    | 8    | II-29-BR     | ★383832-S100 |
| ■          | 1/2"-14<br>7/8"-14    | 2-9/32"  | Brass    | 9    | II-30-F      | ★388508-S100 |
|            | 9/16"-18<br>9/16"-18  | 1-31/32" | Steel    | 9    | II-31-CA     | ★384286-S7☆  |
|            | 3/4"-16<br>3/4"-16    | 2-1/4"   | Steel    | 9    | II-31-C      | 384285-S7☆   |

† Includes "O" Ring

(continued)





**PH-81**
**FITTING — CONNECTOR NUT**


TYPE 1



TYPE 2



TYPE 3

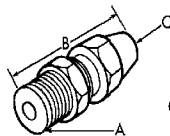
PH81

| TUBE SIZE | FEMALE THREAD       | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER   |
|-----------|---------------------|----------|------|--------------|---------------|
| 3/16"     | 7/16"-24<br>1/2"-20 | Brass    | 1    | II-62-C      | ★ 386580-S    |
| 3/16"     | (2)9/16"-18         | Brass    | 1    | II-62-E      | ★ 386581-S    |
| 3/8"      | 3/8"-24<br>3/8"-24  | Brass    | 1    | II-61-X      | 383057-S      |
| 3/16"     | 1/8"-27<br>1/8"-27  | Brass    | 2    | II-63        | ★ 352474-S    |
| 3/16"     | 7/16"-24*           | Steel    | 3    | II-63-D      | ★ 382404-S100 |
| 1/4"      | 9/16"-18*           | Steel    | 3    | II-63-C      | ★ 389880-S36  |

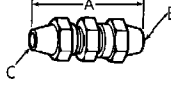
**Metric**

|       |           |       |   |         |               |
|-------|-----------|-------|---|---------|---------------|
| M19   | M27x2.0   | Steel | 1 | AI-32   | ★ N802500-S36 |
| M5    | M12x1*    | Steel | 3 | AI-33-G | ★ E855016-S71 |
| M8    | M14x1.25* | Steel | 3 | AI-35   | ★ E855088-S76 |
| M9.5  | M11.11    | Steel | 3 | AI-40   | ★ N801960-S36 |
| M12.7 | M12.7     | Steel | 3 | AI-37   | ★ N801959-S36 |
| M27   | M22       | Steel | 3 | AI-37-A | ★ N803184-S   |

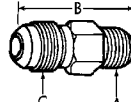
\* Male Thread

**PH-89**
**FITTING — CONNECTOR**


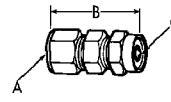
TYPE 1



TYPE 2



TYPE 3



TYPE 4

PH89

| A        | B        | C        | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|----------|----------|----------|------|--------------|---------------|
| 2-1/32"  | 1/4"     | 1/4"     | Brass    | 2    | II-177-B     | ★ 357636-S    |
| 1/8"-27  | 1-1/16"  | 7/16"-24 | Brass    | 3    | II-179       | ★ 382786-S    |
| 1/8"-27  | 1-7/32"  | 9/16"-18 | Steel    | 3    | II-179-A     | ★ 389906-S36  |
| 1/8"-27  | 1-3/4"   | 1/2"-20  | Steel    | 3    | II-177-E     | ★ 386162-S2   |
| 1/4"-18  | 1-19/32" | 3/4"-16  | Brass    | 3    | II-177-H     | ★ 389123-S100 |
| 5/16"-24 | 25/32"   | 1/8"-27  | Brass    | 3    | II-177-D     | ★ 381833-S    |
| 7/16"-20 | 1-3/16"  | 7/16"-20 | Steel    | 3    | II-177-W     | ★ 390080-S43  |
| 1/2"-14  | 1-7/8"   | 7/8"-14  | Steel    | 3    | II-177-RB    | ★ 383284-S100 |
| 1/2"-20  | 1-3/16"  | 1/2"-20  | Steel    | 3    | II-177-L     | ★ 389351-S43  |
| 9/16"-18 | 1-1/4"   | 9/16-18  | Steel    | 3    | II-177-DD    | ★ 389353-S43  |
| 9/16"-18 | 1-25/64" | 3/4-18   | Steel    | 3    | II-177-DC    | 389618-S36    |
| 5/8"-18  | 1-11/32" | 1/2"-20  | Brass    | 3    | II-177-DE    | ★ 385923-S    |
| 5/8"-18  | 1-1/2"   | 3/8"-18  | Brass    | 3    | II-177-DG    | ★ 388700-S100 |
| 1/4"     | 1-5/32"  | 1/4"     | Brass    | 4    | II-177-J     | ★ 382053-S    |

**Metric**

| A   | B      | C      | D      | E     | TYPE | LOCATOR CODE | PART NUMBER  |
|-----|--------|--------|--------|-------|------|--------------|--------------|
| M8  | 37.5mm | 13mm   | —      | Steel | 1    | II-177-DJ    | W704544-S309 |
| M10 | 49.5mm | 3.31mm | 3.31mm | Steel | 2    | II-177-DH    | N807100-S36  |

■ Includes Sealer

# Standard and Utility Parts Catalog

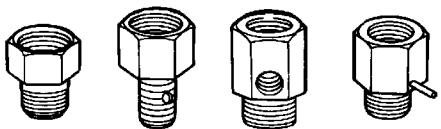
**PH-71      FITTING — HOSE CONNECTOR**



PH71

| HOSE SIZE | FEMALE THREAD | OVERALL LENGTH | MATERIAL | LOCATOR CODE | PART NUMBER |
|-----------|---------------|----------------|----------|--------------|-------------|
| 3/8"      | 1/2"-14       | 2-13/64"       | Brass    | II-44        | ★ 357525-S  |
|           | 1/8"-27       |                |          |              |             |

**PH-82      FITTING — CONNECTOR — MALE INVERTED**

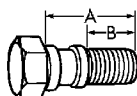


TYPE 1      TYPE 2      TYPE 3      TYPE 4

PH82

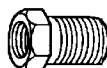
| TUBE SIZE | FEMALE THREAD | MALE THREAD | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|-----------|---------------|-------------|----------|------|--------------|--------------|
|           | 1/4"-18       | 1/2"-14     | Brass    | 1    | II-87-D      | ★ 385274-S   |
|           | 3/8"-18       | 1/4"-18     | Brass    | 1    | II-64-D      | ★ 373354-S   |
|           | 3/8"-18       | 1/4"-18     | Steel    | 1    | II-64-DA     | ★ 387267-S2  |
|           | 3/8"-18       | 3/8"-18     | Brass    | 1    | II-82-C      | ★ 358918-S   |
|           | 7/16"-24      | 5/8"-18     | Steel    | 1    | II-71-C      | ★ 383063-S   |
|           | 5/8"-18       | 3/8"-18     | Brass    | 1    | II-80-B      | ★ 353777-S   |
| 7/32"     | 1/4"-27       | 1/8"-27     | Brass    | 1    | II-64        | ★ 374503-S   |
| 1/4"      | 7/16"-24      | 3/8"-18     | Brass    | 1    | II-69        | ★ 357854-S   |
| 1/4"      | 7/16"-24      | 1/2"-20     | Brass    | 1    | II-71        | ★ 353280-S   |
| 1/4"      | 7/16"-24      | 1/2"-20     | Brass    | 1    | II-71-A      | ★ 384398-S   |
| 5/16"     | 1/4"-18       | 1/2"-20     | Steel    | 1    | II-79        | ★ 359324-S8  |
| 5/16"     | 1/2"-20       | 1/4"-18     | Steel    | 1    | II-87-GA     | ★ 359324-S36 |
| 5/16"     | 1/2"-20       | 3/8"-18     | Steel    | 1    | II-87-G      | ★ 385064-S2  |
| 5/16"     | 1/2"-20       | 1/2"-20     | Brass    | 1    | II-73        | ★ 354582-S   |
| 5/16"     | 1/2"-20       | 5/8"-18     | Brass    | 1    | II-75        | ★ 372480-S   |
| 3/8"      | 5/8"-18       | 5/8"-18     | Steel    | 1    | II-80-C      | 390148-S36   |
| 3/8"      | 5/8"-18       | 1/8"-27     | Brass    | 1    | II-80        | ★ 354447-S   |
| 3/8"      | 5/8"-18       | 1/4"-18     | Brass    | 1    | II-80-A      | ★ 376681-S   |
| 3/8"      | 5/8"-18       | 1/2"-13     | Brass    | 1    | II-82-E      | ★ 378598-S   |
| 3/8"      | 5/8"-18       | 1/2"-14     | Brass    | 1    | II-81-A      | ★ 379775-S   |
| 1/2"      | 3/4"-18       | 1/2"-14     | Brass    | 1    | II-152-D     | ★ 384844-S   |
| 5/8"      | 1/2"-14       | 1/2"-14     | Steel    | 1    | II-86-H      | ★ 386250-S36 |
| 5/8"      | 7/8"-18       | 3/4"-14     | Steel    | 1    | II-85-DL     | ★ 387403-S36 |
| 7/8"      | 1-3/16"       | 3/4"-14     | Steel    | 1    | II-85-R      | 387285-S36   |
| 1/4"      | 7/16"-24      | 1/4"-18     | Brass    | 2    | II-68-A      | ★ 375796-S   |
|           | 1/4"-18       | 1/4"-18     | Brass    | 4    | II-177-T     | ★ 379885-S   |

| Metric |          |         |       |   |         |                |
|--------|----------|---------|-------|---|---------|----------------|
|        | M18x1.5  | 3/8"-18 | Steel | 1 | AI-25   | ★ N800082-S51  |
|        | M22x1.50 | 1/2"-14 | Steel | 1 | AI-26   | ★ N803093-S51  |
|        | M27x20   | 1/2"-14 | Steel | 1 | AI-56-K | ★ N801710-S51  |
|        | M27x2.0  | M16x2.0 | Steel | 2 | AI-45   | ★ N803356-S51  |
| 1/4"   | 1/4"-18  | 1/4"-18 | Steel | 3 | AI-55-E | ★ N800966-S100 |

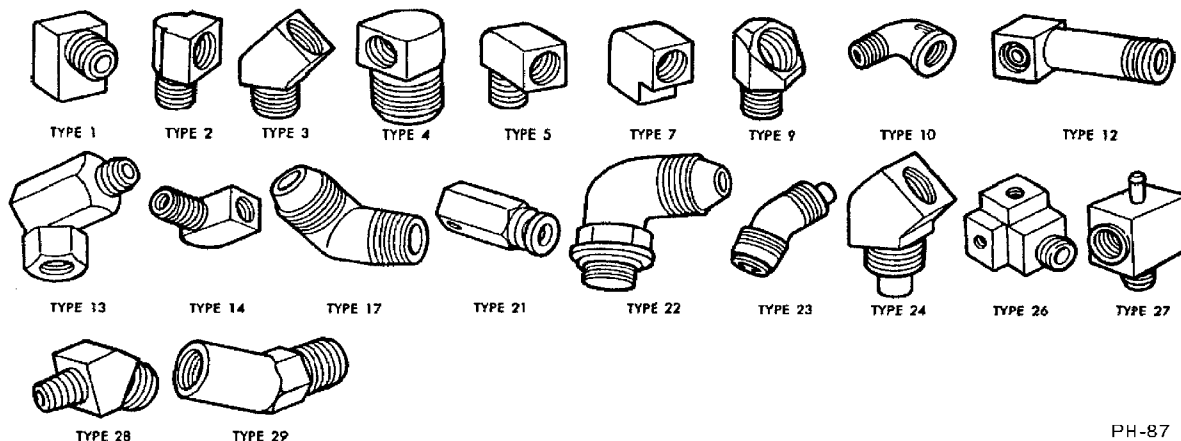
**PH-86**
**FITTING — CONNECTOR — HEXAGON HEAD**

**TYPE 1**

PH-86  
12/01/2003

| DIAMETER | THREAD | A       | B      | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|---------|--------|------|--------------|--------------|
| 7/16"    | 20     | 1-5/32" | 9/16"  | 1    | II-149       | ★ 356696-S8  |
| 3/8"     | 18     | 53.56mm | 34.5mm | 1    | II-149       | W709857-S900 |

**PH-79**
**FITTING — REDUCING BUSHING**

**PH-79**

| PIPE THREAD          | MATERIAL | LOCATOR CODE | PART NUMBER |
|----------------------|----------|--------------|-------------|
| 1/8"-27 &<br>1/4"-18 | Brass    | II-46        | 353107-S    |
| 1/4"-18 &<br>1/8"-27 | Brass    | II-47-B      | 358267-S101 |
| 1/2"-14 &<br>3/4"-14 | Brass    | II-50        | 353832-S101 |

**PH-87**
**FITTING — ELBOW — INVERTED**

**PH-87**

| TUBE SIZE | FEMALE THREAD | MALE THREAD | TYPE | MATERIAL | LOCATOR CODE | PART NUMBER   |
|-----------|---------------|-------------|------|----------|--------------|---------------|
| 3/16"     | 1/8"-27       | 1/8"-27     | 1    | Brass    | II-153       | ★ 357466-S    |
| 7/32"     | 1/8"-27       | 1/8"-27     | 1    | Brass    | II-153-AB    | ★ 373171-S100 |
| 1/4"      | 1/4"-18       | 1/8"-27     | 1    | Brass    | II-153-C     | ★ 371854-S    |
| 7/16"     | 1/8"-27       | 1/8"-27     | 1    | Brass    | II-153-B     | ★ 373171-S    |
| 1/2"      | 3/4"-18       | 3/8"-18     | 1    | Steel    | II-153-AE    | ★ 385728-S36  |
| 3/4"      | 1/2"-20       | 3/4"-14     | 1    | Brass    | II-153-AC    | ★ 387906-S    |
| 5/16"     | 1/8"-27       | 1/4"-18     | 2    | Brass    | II-155-A     | ★ 357943-S    |
| 5/16"     | 1/8"-27       | 1/8"-27     | 2    | Brass    | II-156-C     | 370829-S100   |
| 3/8"      | 5/8"-18       | 1/8"-27     | 2    | Brass    | II-155-D     | ★ 371550-S    |
| 1/2"      | 3/4"-18       | 1/4"-18     | 2    | Brass    | II-155-B     | ★ 353944-S    |

(continued)

# Standard and Utility Parts Catalog

PH-87      FITTING — ELBOW — INVERTED (Cont'd)

| TUBE SIZE | FEMALE THREAD        | MALE THREAD          | TYPE | MATERIAL | LOCATOR CODE | PART NUMBER   |
|-----------|----------------------|----------------------|------|----------|--------------|---------------|
| 5/8"      | 7/16"-18             | 1/4"-18              | 2    | Brass    | II-157       | ★353095-S     |
|           | 3/8"-18              | 3/8"-18              | 3    | Brass    | II-160-F     | ★352995-S     |
|           | 3/4"-14              | 3/4"-14              | 3    | Brass    | II-160-D     | ★387926-S101  |
|           | 1/4"-18              | 1/4"-18              | 3    | Brass    | II-160-AA    | ★U350586-S101 |
| 5/16"     | 1/8"-27              | 1/8"-27              | 3    | Brass    | II-159       | ★354205-S     |
| 5/16"     | 1/4"-18              | 1/4"-18              | 3    | Brass    | II-160-C     | ★377959-S     |
| 5/8"      | 1-1/16"              | 3/4"-14              | 3    | Steel    | II-160-E     | ★389055-S36   |
| 1/4"      | 1/4"-18              | 1/4"-18              | 3    | Brass    | II-160-A     | ★354955-S100  |
|           | 1/2"                 | 1/2"                 | 4    | Brass    | II-161-AH    | 370058-S101   |
|           | 3/4"-14              | 3/4"-14              | 4    | Brass    | II-161-AE    | ★370257-S     |
|           | 3/4"-14              | 3/4"-14              | 4    | Brass    | II-161-AF    | ★384378-S     |
|           | 1-3/16"-16           | 3/4"-14              | 4    | Steel    | II-161-AG    | ★389000-S     |
|           | 1/4"-18              | 1/4"-18              | 4    | Brass    | II-161-A     | ★372016-S     |
| 1/4"      | 7/16"-24             | 1/4"-18              | 4    | Brass    | II-161       | ★357763-S     |
| 3/8"      | 5/8"-18              | 3/8"-18              | 4    | Brass    | II-162       | ★354584-S     |
| 3/4"      | 1-1/16"-16           | 1/2"-14              | 4    | Brass    | II-162-A     | ★373917-S     |
| 5/16"     | 1/4"-18              | 1/4"-18              | 5    | Brass    | II-162-E     | ★372268-S     |
| 3/16"     | 3/8"-24              |                      | 7    | Brass    | II-171-K     | ★388027-S     |
| 1/4"      | 1/4"-20<br>1/2"-20   |                      | 7    | Brass    | II-168-D     | ★382241-S     |
| 1/4"      | 7/16"-24<br>7/16"-24 |                      | 7    | Brass    | II-168-C     | ★373995-S     |
| 1/4"      | 1/2"-20              |                      | 7    | Brass    | II-168-DH    | ★385264-S     |
| 9/32"     | 1/4"-20<br>1/8"-27   |                      | 7    | Brass    | II-171-A     | ★374157-S     |
| 21/64"    | 1/8"-27<br>1/8"-27   |                      | 7    | Brass    | II-168-E     | ★374375-S     |
| 3/8"      | 5/8"-18<br>5/8"-18   |                      | 7    | Brass    | II-171-D     | ★376682-S     |
|           | 1/2"-14              | 1/2"-14              | 9    | Brass    | II-49-EA     | 370320-S101   |
|           | 3/4"-14              | 1/2"-14              | 9    | Steel    | II-49-E      | ★389146-S36   |
|           | 7/8"-18<br>1/2"-14   |                      | 9    | Brass    | II-171-EA    | ★389603-S102  |
|           | 1/8"-27              | 1/8"-27              | 10   | Steel    | II-174-C     | ★390071-S101  |
|           | 1/2"-14              | 1/2"-14              | 10   | Iron     | II-174-A     | ★375792-S7-8  |
|           | 1/2"-14              | 1/2"-14              | 10   | Steel    | II-174-B     | ★370320-S-ED  |
| 1/8"      | 1/8"-27              | 1/8"-27              | 10   | Brass    | II-174-D     | ★354205-S101  |
|           | 3/8"-18              | 5/8"-18              | 12   | Brass    | II-176-A     | ★389136-S     |
| 3/8"      | 7/16"-20             | 5/8"-18              | 14   | Brass    | II-176-D     | ★375977-S     |
| 1/4"      |                      | 7/16"-20<br>1/4"-18  | 17   | Brass    | II-176-DA    | ★389761-S100  |
| 3/8"      |                      | 1/4"-18<br>5/16"-18  | 17   | Brass    | II-176-LB    | ★375906-S100  |
| 3/8"      |                      | 9/16"-18<br>1/8"-27  | 17   | Steel    | II-176-DC    | ★389973-S101  |
| 1/2"      |                      | 5/8"-18<br>1/2"-14   | 17   | Brass    | II-176-LD    | 389334-S100   |
| 1/2"      |                      | 3/4"-16<br>1/4"-18   | 17   | Brass    | II-176-E     | ★389128-S100  |
| 1/2"      |                      | 3/4"-16<br>1/4"-18   | 17   | Brass    | II-176-G     | ★389127-S100  |
| 5/8"      |                      | 3/8"-18<br>7/8"-14   | 17   | Steel    | II-176-DB    | ★389932-S101  |
| 1/4"      | 7/16"-24<br>7/16"-24 |                      | 21   | Steel    | II-178       | ★389907-S36   |
| 1/4"      | 7/16"-24<br>7/16"-24 |                      | 21   | Steel    | II-178-A     | ★389993-S36   |
| 1/4"      | 7/16"-24             |                      | 21   | Steel    | II-178-C     | ★391539-S36   |
| 1/4"      | 7/16"-24             |                      | 21   | Steel    | II-178-D     | 391540-S36    |
| 1/2"      | 1/2"-20              |                      | 21   | Steel    | II-178-B     | 389803-S36    |
| 3/8"      |                      | 7/16"-20<br>9/16"-18 | 22   | Steel    | II-177-A     | ★389905-S36   |

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**FITTING — ELBOW — INVERTED (Cont'd)**

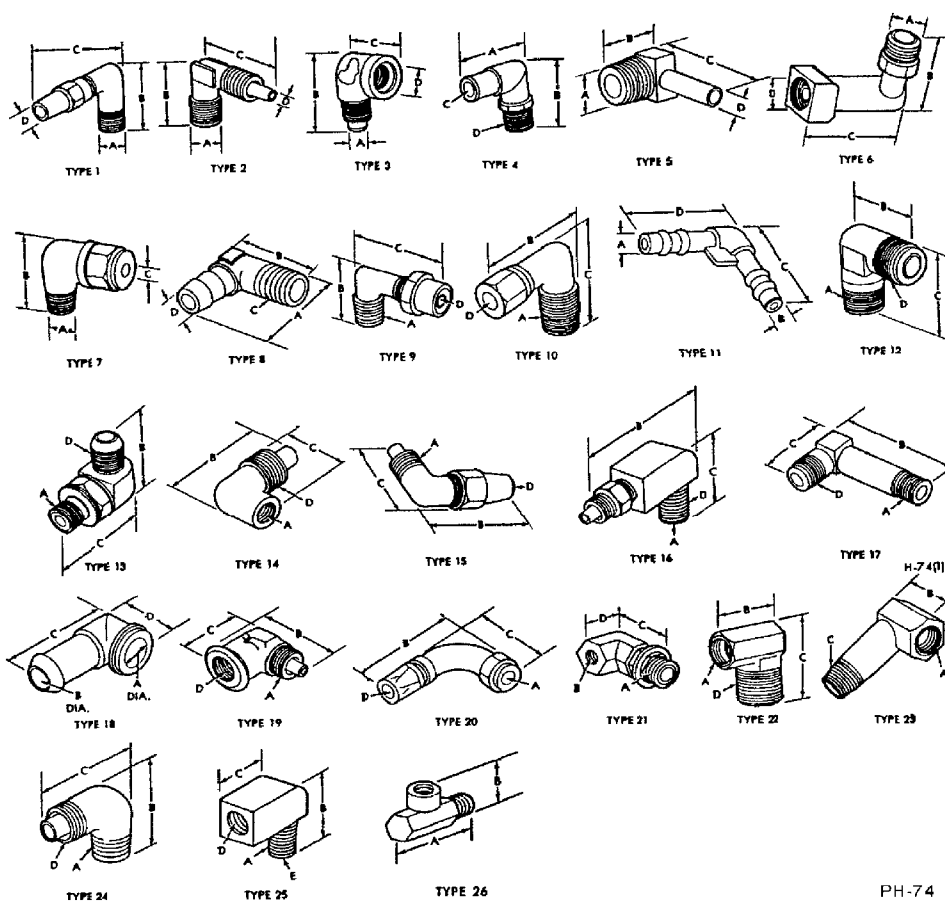
| TUBE SIZE | FEMALE THREAD      | MALE THREAD          | TYPE | MATERIAL | LOCATOR CODE | PART NUMBER   |
|-----------|--------------------|----------------------|------|----------|--------------|---------------|
| 1/2"      |                    | 3/4"-16<br>9/16"-18  | 22   | Steel    | II-177-U     | 386282-S7     |
| 5/8"      |                    | 7/8"-14<br>7/8"-14   | 22   | Steel    | II-177-S     | ★ 389986-S36  |
| 5/8"      |                    | 7/8"-14<br>3/4"-16   | 22   | Brass    | II-177-SA    | ★ 391050-S7   |
| 3/8"      |                    | 1/4"-18<br>17/32"-24 | 23   | Brass    | II-176-XM    | ★ 383814-S100 |
| 3/8"      |                    | 3/8"-18<br>9/16"-24  | 23   | Brass    | II-176-XN    | ★ 383815-S100 |
| 1/2"      |                    | 3/8"-18<br>11/16"-20 | 23   | Brass    | II-176-XR    | ★ 383817-S100 |
| 1/2"      |                    | 11/16"-20<br>1/2"-14 | 23   | Brass    | II-176-XU    | ★ 384232-S100 |
| 1/2"      |                    | 11/16"-20<br>1/4"-18 | 23   | Brass    | II-176-XV    | ★ 383816-S100 |
| 3/4"      |                    | 1"-18<br>1/2"-14     | 23   | Brass    | II-176-XY    | ★ 386554-S100 |
| 1/4"      | 7/16"-24           | 1/8"-27              | 24   | Brass    | II-236-G     | ★ 386707-S    |
|           | 1/8"-27<br>1/4"-18 | 1/4"-18              | 26   | Brass    | II-176-XW    | ★ 385716-S    |
| 3/16"     | 3/4"-18<br>1/4"-18 | 1/4"-18              | 27   | Brass    | II-176-V     | ★ 386459-S100 |

**Metric**

|      |         |         |    |       |          |               |
|------|---------|---------|----|-------|----------|---------------|
| 3/4" | M27x2   | 3/4"-14 | 3  | Steel | AI-12    | ★ N801987-S51 |
| 3/4" | M27x2   | 3/4"-14 | 3  | Steel | AI-58    | N801906-S51   |
| M12  | M18x1.5 | 3/8"-18 | 4  | Steel | AI-13    | ★ N855076-S51 |
| M12  | M18x1.5 | 3/8"-18 | 9  | Steel | AI-14-G  | ★ N800062-S51 |
|      | M18x1.5 | 3/8"-18 | 9  | Steel | AI-15    | ★ E855200-S72 |
|      | M27x2   | 1/2"-14 | 9  | Steel | AI-20-EA | ★ N801709-S51 |
| 1/4" | 1/4"-18 | 1/4"-18 | 12 | Steel | AI-16-E  | N800299-S100  |
| 1/2" | M22x1.5 | 1/2"-14 | 13 | Steel | AI-17-B  | ★ N801126-S36 |

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FITTING — ELBOW — 90° — BRASS



PH-74

| A                | B        | C        | D                | TYPE | LOCATOR CODE | PART NUMBER   |
|------------------|----------|----------|------------------|------|--------------|---------------|
| 3/8"-18 $\Delta$ | 1-3/8"   | 2"       | 3/8"             | 1    | II-183-A     | ★383061-S     |
| 1/2"-14 $\Delta$ | 1-1/2"   | 2-1/2"   | 5/8"             | 1    | II-183-D     | ★385998-S100  |
| 1/2"-14 $\Delta$ | 2"       | 2-7/8"   | 5/8"             | 1    | II-184       | ★371128-S     |
| 1/2"-14 $\Delta$ | 2"       | 2-7/8"   | 5/8"             | 1    | II-184-B     | ★371128-S101  |
| 1/8"-27 $\Delta$ | 57/64"   | 1-1/8"   | 3/8"-24          | 2    | II-185       | ★370289-S     |
| 1/8"-27 $\Delta$ | 15/16"   | 1-1/8"   | 17/32"-24        | 2    | II-185-G     | ★383821-S100  |
| 1/8"-27 $\Delta$ | 1-13/32" | 1-15/64" | 7/16"-24         | 2    | II-185-C     | ★383819-S100  |
| 1/4"-18 $\Delta$ | 1-3/16"  | 1-3/8"   | 17/64"           | 2    | II-185-A     | ★384200-S100  |
| 1/4"-18 $\Delta$ | 1-13/64" | 1-1/16"  | 17/32"-24        | 2    | II-185-GA    | ★383822-S100  |
| 1/4"-18 $\Delta$ | 1-17/64" | 1-5/16"  | 11/16"-20        | 2    | II-185-GC    | ★383824-S100  |
| 1/4"-18 $\Delta$ | 1-13/32" | 1-15/64" | 7/16"-24         | 2    | II-185-B     | ★383820-S100  |
| 3/8"-18 $\Delta$ | 1-3/8"   | 1-9/64"  | 17/32"-24        | 2    | II-185-GB    | ★383823-S100  |
| 3/8"-18 $\Delta$ | 1-13/32" | 1-15/64" | 3/16"            | 2    | II-185-D     | ★383810-S100  |
| 3/8"-18 $\Delta$ | 1-35/64" | 2-1/64"  | 9/16"            | 2    | II-185-GF    | ★384233-S100  |
| 1/2"-14 $\Delta$ | 1-19/32" | 1-23/64" | 11/16"-20        | 2    | II-185-GD    | ★383825-S100  |
| 1/2"-14 $\Delta$ | 2"       | 1-43/64" | 1"-18            | 2    | II-185-F     | ★383812-S100  |
| 1/8"-27 $\Delta$ | 1-5/32"  | 1-9/16"  | 1/8"-24 $\Delta$ | 3    | II-186-B     | ★383795-S     |
| 1/4"-18 $\Delta$ | 1"       | 23/32"   | 1/4"-18          | 3    | II-186-E     | ★U350081-S101 |
| 3/8"-18 $\Delta$ | 1-5/8"   | 1-1/4"   | 3/8"-18 $\Delta$ | 3    | II-186-CH    | ★384983-S100  |
| 3/8"-18 $\Delta$ | 1-5/8"   | 1-9/16"  | 3/4"-18          | 3    | II-186-C     | ★384741-S     |
| 1/2"-14          | 1-1/2"   | 1-3/8"   | 5/8"-18          | 3    | II-186-D     | ★384784-S101  |
| 5/8"-18          | 1-7/8"   | 1-1/4"   | 1/2"-20          | 3    | II-219       | ★385179-S     |

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FITTING — ELBOW — 90° — BRASS (Cont'd)

| A          | B        | C         | D          | TYPE | LOCATOR CODE | PART NUMBER    |
|------------|----------|-----------|------------|------|--------------|----------------|
| 3/4"-16    | 1-7/8"   | 1-1/4"    | 3/4"-16    | 3    | II-186       | ★371456-S      |
| 3/4"-14Δ   | 3"       | 1-3/4"    | 3/4"-14Δ   | 3    | II-186-G     | ★390956-S100■  |
| 1/4"       | 3/4"     | 11/64"    | 1/8"       | 4    | II-186-J     | ★383819-S      |
| 1-19/64"   | 1-15/32" | 11/16"-20 | 3/8"-18    | 4    | II-185-E     | ★383811-S100   |
| 1/8"-14    | 27/32"   | 1-11/32"  | 3/16"      | 5    | II-10-CA     | ★381719-S      |
| 7/16"-24   | 1-7/64"  | 1-1/2"    | 7/16"-24   | 6    | II-187-M     | ★376915-S      |
| 1/8"-27    | 15/16"   | 1/8"      |            | 7    | II-187-Z     | ★381743-S      |
| 1/8"-27    | 15/16"   | 1/4"      |            | 7    | II-187-PB    | ★351246-S      |
| 3/8"-18Δ   | 1-17/32" | 1/2"      |            | 7    | II-187-PE    | ★382353-S      |
| 11/16"-16  | 9/16"    | 17/64"    | —          | 7    | II-187-PG    | 391646-S       |
| 11/32"     | 1-5/8"   | 9/32"     |            | 7    | II-187-PF    | 375906-S101    |
| 1-5/8"     | 1-1/8"   | 5/8"      | 1/2"       | 8    | II-187-H     | 388962-S       |
| 1/4"-18    | 1-1/8"   | 1-7/16"   | 1/4"       | 9    | II-187-X     | ★382047-S      |
| 5/8"-18    | 1-1/2"   | 1-3/8"    | 5/8"-18    | 10   | II-187-AM    | ★384959-S      |
| 5/32"      | 11/64"   | 45/64"    | 45/64"     | 11   | II-187-AU    | ★390230-S*     |
| 3/16"      | 3/16"    | 1-1/8"    | 1-1/8"     | 11   | II-187-AJ    | 387065-S*      |
| 1/4"       | 3/16"    | 1-1/8"    | 1-1/8"     | 11   | II-187-BB    | 387980-S*      |
| 1/4"       | 1/4"     | 1-1/8"    | 1-1/8"     | 11   | II-187-BA    | 389038-S*      |
| 5/16"      | 5/16"    | 1-1/16"   | 1-1/16"    | 11   | II-187-AP    | ★389359-S*     |
| 1/8"-27    | 45/64"   | 3/4"      | 7/16"-24   | 12   | II-220-A     | ★390176-S      |
| 1/8"-27Δ   | 1-1/8"   | 1-1/4"    | 5/8"-18    | 12   | II-220-K     | ★389376-S101   |
| 1/8"-27Δ   | 1-1/4"   | 1"        | 9/16"-18   | 12   | II-220-J     | ★389908-S36☆   |
| 1/4"-14    | 3"       |           | 5/8"-18■   | 12   | II-220-L     | ★388970-S100   |
| 1/4"-18Δ   | 1-1/8"   | 1-1/2"    | 17/32"-24  | 12   | II-187-AC    | ★384570-S100   |
| 1/4"-18    | 1-1/8"   | 3-7/32"   | 7/16"-20   | 12   | II-226       | ★385985-S100   |
| 3/8"-18Δ   | 1-1/4"   | 1-1/4"    | 5/8"-18    | 12   | II-187-AN    | ★380982-S100■  |
| 3/8"-18Δ   | 1-7/8"   | 1-5/8"    | 7/8"-14    | 12   | II-187-AT    | ★389963-S101☆  |
| 7/16"-24   | 1-1/2"   | 7/8"      | 7/16"-24   | 12   | II-187-AS    | ★358694-S      |
| 1/2"-14Δ   | 1-29/64" | 1-11/16"  | 3/4"-16Δ   | 12   | II-220-H     | ★386389-S100   |
| 1/2"-14Δ   | 2-3/8"   | 1-29/32"  | 3/4"-14Δ   | 12   | II-220       | ★384842-S☆     |
| 3/4"-14Δ   | 1-27/32" | 1-9/16"   | 5/8"-18    | 12   | II-176-XH    | ★384734-S      |
| 3/4"-14Δ   | 1-27/32" | 1-9/16"   | 5/8"-18    | 12   | II-176-XJ    | ★384734-S100■  |
| 1-1/16"-14 | 2-3/16"  | 2-3/16"   | 3/4"-14Δ   | 12   | II-218       | ★385145-S      |
| 9/16"-18   | 1-17/32" | 1-11/32"  | 9/16"-18   | 13   | II-187-AZ    | ★383922-S☆     |
| 3/4"-16    | 1-11/16" | 1-13/32"  | 3/4"-16    | 13   | II-187-B     | ★380514-S7-8☆  |
| 3/4"-16    | 1-23/64" | 1-47/64"  | 9/16"-18   | 13   | II-187-C     | ★384252-S      |
| 1-1/16"-12 | 1-3/4"   | 2"        | 1-1/16"-14 | 13   | II-187-D     | ★387090-S7☆    |
| 3/8"-18Δ   | 1-23/32" | 1-1/64"   | 11/16"-20  | 14   | II-187-BE    | ★U350327-S     |
| 7/16"-24   | 1-43/64" | 1-7/64"   | 11/16"-20  | 14   | II-187-BF    | ★383838-S      |
| 7/16"-24   | 1-7/16"  | 1-13/32"  | 1/4"       | 15   | II-187-BN    | ★383836-S      |
| 7/16"-20   | 1-31/32" | 1-5/8"    | 5/8"-18    | 16   | II-187-R     | ★383837-S      |
| 1/2"-14Δ   | 3-1/4"   | 1-61/64"  | 7/8"-14    | 17   | II-187-CC    | ★384482-S7-8   |
| 3/4"       | 5/8"     | 1-3/4"    | 15/16"     | 18   | II-187-CF    | 384411-S*      |
| 7/16"-24   | 1-19/64" | 3/4"      | 1/8"-27    | 19   | II-187-CH    | ★384480-S      |
| 1-1/16"-14 | 3-7/8"   | 2-3/8"    | 35/64"     | 20   | II-24-D      | ★385146-S7☆    |
| 1/2"-14Δ   | 1-5/16"  | 2-3/8"    | 7/8"-14    | 21   | II-221       | ★385811-S      |
| 3/8"-18    | 1-3/8"   | 1-7/16"   | 3/8"-18    | 22   | II-230       | ★386683-S      |
| 7/16"-24   | 1"       | 2"        | 5/8"-18    | 22   | II-230-D     | ★388943-S      |
| 9/16"      | 2-1/16"  | 1-7/64"   | 9/16"      | 22   | 810-990      | 391721-S       |
| 5/8"       | 2"       | 23/64"    | 1/2"       | 22   | II-230-E     | N808344-S101   |
| 5/8"       | 2-23/64" |           | 3/4"-14Δ   | 22   | II-229-M     | ★388081-S36☆   |
| 7/8"-18    | 1-15/32" | 1-7/8"    | 1/2"-14Δ   | 22   | II-229       | ★386439-S36☆   |
| 1/8"       | 13/16"   | 1/2"      | 1/8"       | 22   | II-229-R     | ★370829-S      |
| 1/8"-27    | 3/4"     | 1/8"-27   |            | 23   | II-242-E     | ★387460-S100   |
| 7/16"-24   | 1-1/2"   | 7/8"      | 7/16"-24   | 24   | II-225-EA    | 389264-S       |
| 1/8"-27Δ   | 7/8"     | 7/8"      | 7/16"-24   | 24   | II-225-EB    | ★U350471-S101■ |
| 1/2"-14Δ   | 1-21/32" | 1-17/32"  | 13/16"-18Δ | 24   | II-225-E     | ★388669-S100■  |

■ With Sealer

☆ Steel

Δ Pipe Thread

\* Nylon

(continued)



# Standard and Utility Parts Catalog

## PH-74

## FITTING — ELBOW — 90° — BRASS (Cont'd)

| A                | B        | C        | D             | TYPE | LOCATOR CODE | PART NUMBER   |
|------------------|----------|----------|---------------|------|--------------|---------------|
| 1/4"-18 $\Delta$ | 1-1/2"   | 1-3/8"   | 3/4"-16       | 24   | II-225-F     | ★389697-S101  |
| 1/8"-27          | 7/8"     | 15/16"   | 1/8"-27       | 25   | II-261       | ★389996-S101  |
| 1/4" $\Delta$    |          |          | 1/4" $\Delta$ | 25   | II-261-A     | ★U350563-S101 |
| 5/8"-18          | 1-1/2"   | 1"       | 1/4" $\Delta$ | 25   | II-260       | ★383296-S     |
| 5/8"-18          | 1-53/64" | 1-15/32" | 3/8" $\Delta$ | 25   | II-176-A     | ★389136-S100  |
| 2"               | 1"       |          | 3/8"-16       | 26   | II-224       | ★390689-S36   |

## Metric

|          |      |      |         |    |         |             |
|----------|------|------|---------|----|---------|-------------|
| M22x1.50 | 33mm | 33mm | 1/2"-14 | 22 | AI-13-L | ★N800142-S8 |
|----------|------|------|---------|----|---------|-------------|

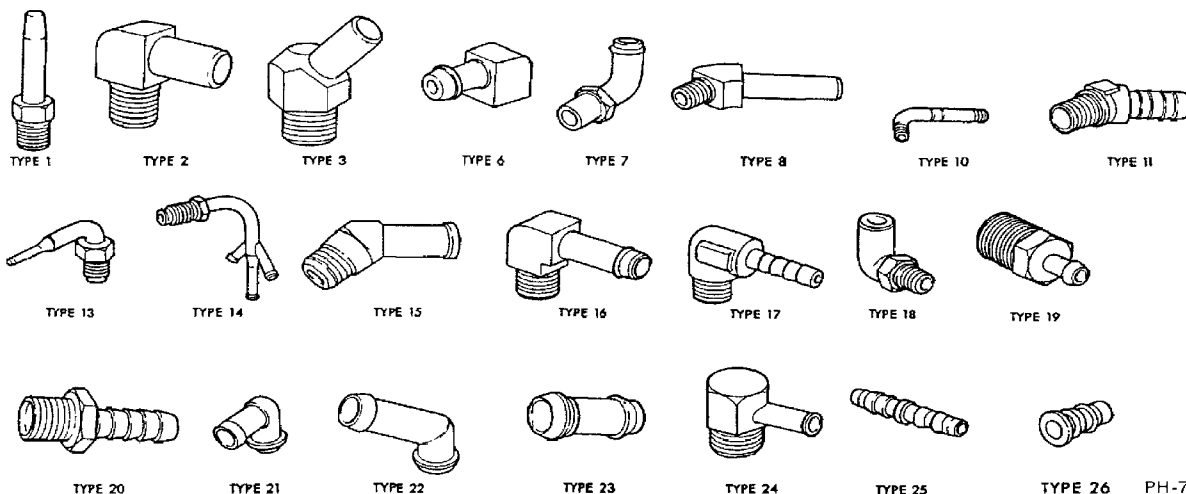
 $\Delta$  Pipe Thread

■ With Sealer Tape

☆ Steel

## PH-76

## FITTING — HOSE CONNECTOR



PH-76

| HOSE SIZE | MALE THREAD | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|-----------|-------------|----------|------|--------------|--------------|
| 1/8"      | 1/8"-27     | Brass    | 1    | II-2-D       | ★379172-S    |
| 3/16"     | 3/8"-24     | †        | 1    | II-2-H       | ★382488-S    |
| 3/16"     |             | Rubber   | 1    | II-7-F       | ★387984-S    |
| 1/4"      | 1/8"-27     | Brass    | 1    | II-1         | ★353284-S    |
| 1/4"      | 1/8"-27     | Brass    | 1    | II-1-A       | ★357970-S    |
| 1/4"      |             | Rubber   | 1    | II-7-H       | ★387983-S    |
| 3/8"      | 1/4"-18     | Brass    | 1    | II-3         | ★353793-S    |
| 1/8"      | 1/4"-18     | Brass    | 2    | II-10-J      | ★380064-S    |
| 1/4"      | 3/8"-18     | Brass    | 2    | II-10        | ★371737-S    |
| 3/8"      | 1/8"-27     | Brass    | 2    | II-9-E       | ★379444-S    |
| 3/8"      | 3/8"-18     | Brass    | 2    | II-11-A      | ★374632-S    |
| 3/4"      | 3/4"-14     | Brass    | 2    | II-13        | ★357757-S    |
| 3/4"      | 3/4"        | Steel    | 2    | II-13-A      | ★390720-S36  |
| 3/8"      | 1/4"-18     | Brass    | 3    | II-15        | ★373002-S    |
| 1/2"      | 3/8"-18     | Brass    | 3    | II-21        | ★371323-S    |
| 1/2"      | 1/2"-14     | Brass    | 7    | II-22-P      | ★379426-S    |
| 3/8"      | 3/8"-18     | Brass    | 8    | II-23-A      | ★375955-S    |
| 5/8"      | 3/8"-18     | Steel    | 10   | II-23-E      | ★375397-S7-8 |
| 3/8"      | 1/4"-18     | Brass    | 11   | II-23-H      | ★377327-S    |
| 1/8"      | 7/16"-24    | Steel    | 13   | II-23-N      | ★380016-S    |
| 1/8"      | 7/16"-24    | Steel    | 14   | II-23-P      | ★380017-S    |
| 1/2"      | 3/8"-18     | Brass    | 15   | II-23-S      | ★382191-S    |
| 1/2"      | 3/8"-18     | Steel    | 15   | II-23-SB     | ★388458-S    |
| 3/4"      | 3/4"        | Steel    | 15   | II-23-SC     | ★390721-S36  |
| 3/8"      | 3/8"-18     | Steel    | 16   | II-23-RR     | ★389167-S8   |
| 3/8"      | 3/8"-18     | Steel    | 16   | II-23-TC     | ★389159-S8   |
| 3/8"      | 3/8"-18     | Steel    | 16   | II-23-TF     | 391273-S100  |

† Steel or Brass

(continued)

**PH-76**
**FITTING — HOSE CONNECTOR (Cont'd)**

| HOSE SIZE | MALE THREAD | MATERIAL     | TYPE | LOCATOR CODE | PART NUMBER   |
|-----------|-------------|--------------|------|--------------|---------------|
| 1/2"      | 3/4"-14     | Steel        | 16   | II-23-TD     | ★384501-S     |
| 1/4"      | 1/8"-27     | Brass        | 17   | II-23-U      | ★383173-S     |
| 1/4"      | 1/4"        | Brass        | 17   | II-23-UF     | ★384078-S100  |
| 3/8"      | 3/8"-18     | Brass        | 17   | II-23-UD     | ★383980-S100■ |
| 1/2"      | 3/8"-18     | Brass        | 17   | II-23-UE     | ★383981-S100■ |
| 5/8"      | 3/8"-18     | Brass        | 17   | II-23-UC     | ★384366-S     |
| 5/8"      | 1/2"-14     | Brass        | 17   | II-23-UA     | ★383867-S     |
| 5/8"      | 3/4"-14     | Brass        | 17   | II-23-UB     | ★384175-S100  |
| 1/4"      | 3/8"-18     | Steel        | 19   | II-4-DG      | ★386153-S100  |
| 1/4"      | 3/8"-18     | Steel        | 19   | II-4-DB      | 386153-S101   |
| 1/4"      | 3/8"-18     | Steel        | 19   | II-4-DA      | ★373724-S101  |
| 1/4"      | 3/8"-18     | Steel        | 19   | II-4-DA      | 373724-S36    |
| 1/4"      | 3/8"-18     | Steel        | 19   | II-4-DAA     | 373724-SA     |
| 3/8"      | 3/8"-18     | Steel        | 19   | II-4-DH      | 389642-S8     |
| 3/8"      | 1/2"-14     | Brass        | 19   | II-4-DC      | 390659-S100   |
| 1/4"      | 1/8"-27     | Brass        | 20   | II-231-G     | ★382323-S     |
| 1/2"      | 3/8"-18     | Brass        | 20   | II-231-J     | ★384177-S100■ |
| 1/4"      | Snap-in     | Plastic      | 21   | II-246-H     | 387074-S      |
| 3/8"      |             | Plastic      | 21   | II-246-J     | 389477-S      |
| 5/8"      | Snap-in     | Plastic      | 21   | II-246-E     | ★387583-S     |
| 5/8"      | Snap-in     | Plastic      | 22   | II-248-E     | ★387995-S     |
| 5/8"      | Snap-in     | Plastic      | 22   | II-248-G     | ★388509-S     |
| 5/8"      | Snap-in     | Plastic      | 23   | II-256-E     | 388470-S      |
| 5/8"      | 1/2"-14     | Brass        | 23   | II-256-F     | ★391140-S101  |
| 3/4"      | 3/4"-3      | Steel        | 23   | II-256-G     | 391821-S8     |
| 1/2"      | 3/8"-18     | Steel        | 24   | II-259-A     | ★390360-S100  |
| 3/4"      | 1/2"-14     | Steel        | 24   | II-259       | ★389769-S8    |
| 1/2"      |             | Polyethylene | 26   | II-262       | 390271-S      |

**Metric**

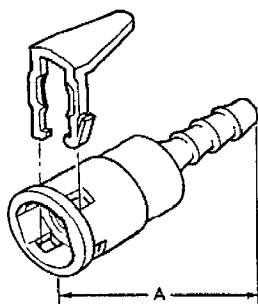
|       |         |          |    |         |               |
|-------|---------|----------|----|---------|---------------|
| M14.5 | 1/2"-14 | Aluminum | 18 | Al-18   | ★E855083-S100 |
| M19   | 3/4"-14 | Aluminum | 19 | Al-4    | ★U800806-S    |
| M8    |         | Steel    | 25 | Al-19-B | N804407-S     |
| M9    |         | Nylon    | 25 | Al-19-A | N803977-S190  |
| 1/4"  |         | Steel    | 25 | Al-19   | N803430-S     |
| 5/16" |         | Steel    | 25 | Al-19-D | N803431-S     |

■ With Sealer Tape

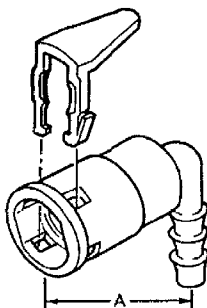
# Standard and Utility Parts Catalog

PH-789

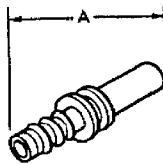
FITTING — HOSE AND TUBE CONNECTOR



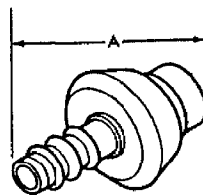
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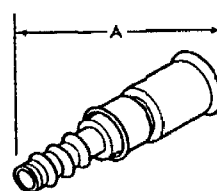
TYPE 2



TYPE 3



TYPE 4



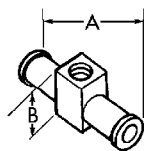
TYPE 5

PH-789

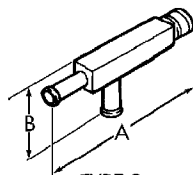
Metric

| HOSE SIZE | TUBE SIZE | A      | TYPE | LOCATOR CODE | PART NUMBER    |
|-----------|-----------|--------|------|--------------|----------------|
| 6.3mm     | 6.3mm     | 52.9mm | 1    | AI-110-C     | ★ N803604-S190 |
| 6.3mm     | 7.9mm     | 51mm   | 1    | AI-110-D     | ★ N803384-S190 |
| 6.4mm     | 9.5mm     | 51mm   | 1    | AI-110-E     | ★ N803595-S190 |
| 8mm       | 9.5mm     | 51mm   | 1    | AI-110-G     | ★ N803572-S190 |
| 6.3mm     | 6.3mm     | 52.9mm | 1    | AI-110-CA    | N806185-S190   |
| 6.3mm     | 7.9mm     | 51.0mm | 1    | AI-110-DA    | N806187-S190   |
| 6.3mm     | 9.5mm     | 51.0mm | 1    | AI-110-EA    | N806188-S190   |
| 6.3mm     | 7.9mm     | 34.5mm | 2    | AI-112-E     | ★ N803358-S190 |
| 6.3mm     | 9.5mm     | 34.7mm | 2    | AI-112-G     | ★ N803571-S190 |
| 8mm       | 9.5mm     | 34.7mm | 2    | AI-112-L     | ★ N803600-S190 |
| 6.3mm     | 7.9mm     | 34.5mm | 2    | AI-112-EA    | N806186-S190   |
| 6.3mm     | 9.5mm     | 34.7mm | 2    | AI-112-GA    | N806197-S190   |
| 6.3mm     | 6.4mm     | 39.1mm | 3    | AI-114-L     | ★ N807606-S    |
| 7mm       | 8mm       | 49mm   | 3    | AI-114-E     | N802484-S100   |
| 9.5mm     | 6.4mm     | 49mm   | 3    | AI-114-G     | N805034-S100   |
| 6.9mm     | 11mm      | 45mm   | 4    | AI-114-C     | N806206-S190   |
| 6.9mm     | 14mm      | 45mm   | 4    | AI-114-D     | N806207-S190   |
| 6.35mm    | 7.94mm    | 35.4mm | 5    | AI-114-J     | N806239-S100   |
| 6.3mm     | 7.9mm     |        | 5    | AI-114-K     | ★ N803384-S190 |

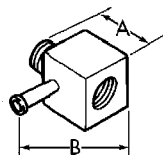
## PH-225 FITTING — HOSE CONNECTOR TEE



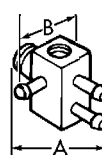
TYPE 4



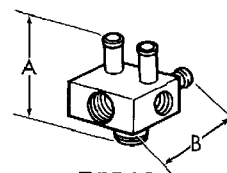
TYPE 9



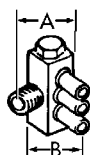
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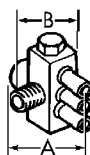
TYPE 11



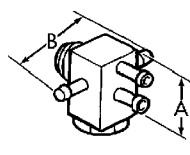
TYPE 15



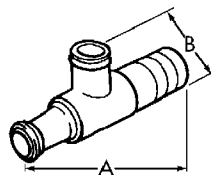
TYPE 16



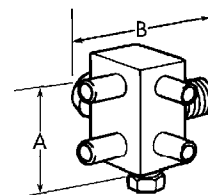
TYPE 17



TYPE 18



TYPE 19



TYPE 20

PH225

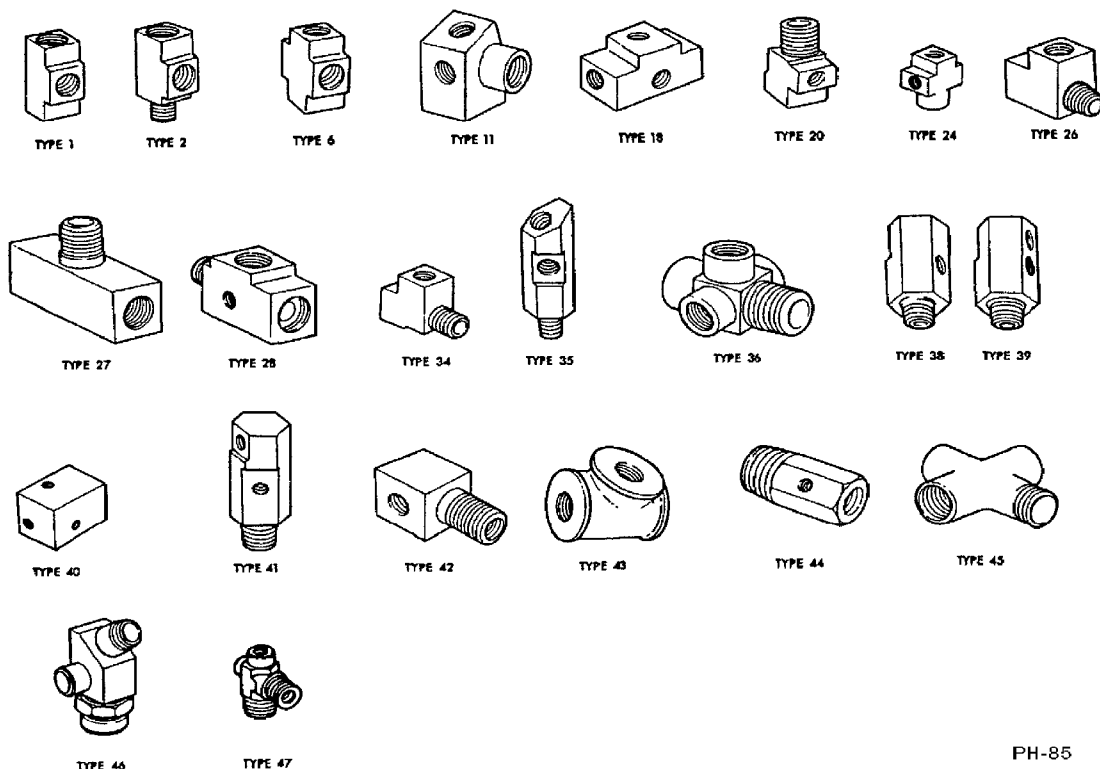
| DIAMETER         | THREAD                            | A        | B        | TYPE | LOCATOR CODE | PART NUMBER    |
|------------------|-----------------------------------|----------|----------|------|--------------|----------------|
| 3/8"             | 1/8"-27                           | 2-1/8"   | 7/8"     | 4    | II-98-GG     | ★379507-S      |
| 3/8"             | 3/8"-18                           | 2-1/2"   | 1-1/4"   | 4    | II-98-GE     | 390708-S8      |
| 3/8"             | 3/8"-18                           | 2-1/2"   | 1-1/4"   | 4    | II-98-GF     | ★390708-S100   |
| 1/2"             | 1/8"-27                           | 2-1/8"   | 7/8"     | 4    | II-98-G      | ★379573-Sø     |
| 1/2", 5/8", 5/8" | 1/8"-27                           | 2"       | 1-41/64" | 4    | II-98-E      | ★380588-S100☆  |
| 1/2", 1/2", 1/2" | 1/2"-14                           | 4-61/64" | 2-5/64"  | 9    | II-98-JH     | ★384221-S100ø  |
| 3/16"            | 1/4"-18†<br>7/16"-24■             | 1-3/4"   | 1-1/4"   | 11   | II-106-VJ    | ★385414-S☆     |
| 3/16"            | 1/4"-18†<br>7/16"-24■<br>5/8"-18■ | 1-3/4"   | 1-1/2"   | 15   | II-98-S      | ★385638-S☆     |
|                  | 1/4"-18†<br>7/16"-24■             | 1-1/4"   | 1-1/4"   | 16   | II-98-V      | ★385903-S100%  |
|                  | 1/4"-18†<br>7/16"-24■<br>5/8"-18■ | 1-11/16" | 1-1/4"   | 17   | II-98-X      | ★385904-S100%  |
| 3/16" & 1/4"     | 3/8"-18<br>5/8"-18                | 1-1/8"   | 1-3/4"   | 18   | II-225-G     | ★385389-S100   |
| 5/8"             | 3/8"-18†                          | 2-53/64" | 1-1/2"   | 19   | II-235-G     | ★387073-S100☆  |
| 3/16"            | 1/4"-18†<br>7/16"-24■<br>5/8"-18■ |          |          | 20   | II-98-R      | ★386718-S100†† |

† Male Thread ■ Female Thread ø Brass ☆ Steel % Includes (1) 353808-S8 plug and (3) 380614-S cap †† Includes (2) plugs and (4) caps

# Standard and Utility Parts Catalog

PH-85

FITTING — TEE — INVERTED



PH-85

| TUBE SIZE | FEMALE THREAD                                 | MALE THREAD | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER   |
|-----------|---|-------------|----------|------|--------------|---------------|
|           | (3) 1/8"-27                                   |             | Brass    | 1    | II-107-F     | ★373292-S     |
|           | (3) 3/8"-18                                   |             | Brass    | 1    | II-107-H     | ★376071-S     |
| 1/4"      | (3) 7/16"-24                                  |             | Brass    | 1    | II-108       | ★370430-S     |
| 1/4"      | (3) 7/16"-24                                  |             | Brass    | 1    | II-108-D     | ★385214-S     |
| 7/16"     | 1/2"-20                                       |             | Brass    | 1    | II-107-C     | ★382421-S     |
|           | 7/16"-24                                      | 1/8"-27     | Brass    | 2    | II-108-H     | ★379175-S     |
|           | 1/8"-27                                       |             |          |      |              |               |
|           | 5/8"-18 & 7/16"-24                            | 1/4"-18     | Brass    | 2    | II-116-A     | ★375786-S     |
|           | 7/16"-24 & 1/4"-18                            | 1/4"-18     | Steel    | 2    | II-116-E     | ★390074-S2    |
| 1/4"      | (2) 1/8"-27                                   | 7/16"-20    | Brass    | 2    | II-113-E     | ★388367-S7    |
| 1/4"      | (4) 1/4"-18                                   |             | Brass    | 6    | II-121-E     | ★387741-S     |
| 1/4"      | (4) 7/16"-24                                  |             | Brass    | 6    | II-122       | ★357645-S     |
| 1/4"      | (4) 1/2"-20                                   |             | Brass    | 6    | II-122-H     | ★385215-S     |
|           | (2) 7/16"-14<br>1/2"-20<br>1/8"-27<br>5/8"-18 |             | Brass    | 11   | II-128       | ★354643-S     |
|           | 1/8"-27<br>(3) 7/16"-24                       |             | Brass    | 18   | II-107-G     | ★385191-S     |
| 3/16"     | 1/8"-27<br>3/8"-18                            | 3/8"-18     | Brass    | 20   | II-140       | ★371969-S     |
| 27/32"    | 1/8"-27<br>7/16"-24<br>1/2"-20                |             | Brass    | 24   | II-146-P     | ★372834-S     |
| 1/8"      | (2) 1/8"-27                                   | 1/8"-27     | Brass    | 26   | II-146-BC    | ★371334-S     |
| 3/16"     | 7/16"-24 & 3/8"-24                            | 1/4"-18     | Brass    | 26   | II-146-BB    | ★375112-S     |
| 1/4"      | 1/4"-18                                       | 1/4"-18     | Steel    | 26   | II-146-BD    | ★384016-S     |
| 1/2"      | 1/2"-14                                       | 1/2"-14     | Brass    | 26   | II-146-BE    | ★370081-S100* |

(continued)

**PH-85**
**FITTING — TEE — INVERTED (Cont'd)**

| TUBE SIZE   | FEMALE THREAD                 | MALE THREAD | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER    |
|-------------|-------------------------------|-------------|----------|------|--------------|----------------|
|             | (2) 3/8"-27                   | 3/8"-27     | Brass    | 27   | II-146-HE    | ★359016-S100   |
|             | (2) 3/8"-18                   | 1/2"-14     | Brass    | 27   | II-146-G     | ★376836-S      |
|             | (2) 1/2"-14                   | 1/2"-14     | Brass    | 27   | II-146-HF    | ★387526-S100*  |
| 1/4"        | 1/4"-18                       | 1/4"-18     | Brass    | 27   | II-146-E     | ★386682-S100   |
| 13/32       | (2) 3/4"-18<br>1/8"-27        | 3/8"-18     | Brass    | 28   | II-146-H     | ★374173-S      |
| 1/2"        | 1/8"-27<br>3/8"-18<br>1/2"-14 | 3/4"-14     | Brass    | 28   | II-146-JA    | ★388154-S100   |
|             | (2) 1/4"-18                   | 1/4"-18     | Brass    | 34   | II-146-T     | ★371176-S      |
|             | (2) 1/4"-18                   | 1/4"-18     | Brass    | 34   | II-146-TE    | ★385224-S      |
| 1/4"        | (2) 1/4"-18                   | 1/4"-18     | Brass    | 34   | II-146-TA    | 371176-S101    |
| 1/4"        | (2) 1/4"-18                   | 1/4"-18     | Brass    | 34   | II-146-TF    | ★385224-S101   |
|             | (2) 1/2"-14<br>3/8"-18        | (1) 1/2"-14 | Brass    | 36   | II-146-AA    | ★377613-S      |
| 1/8" & 1/4" | (3) 1/8"-27<br>(1) 1/4"-18    |             | Brass    | 40   | II-146-AJ    | ★381778-S      |
| 5/16"       | (2) 1/2"-20                   |             | Brass    | 42   | II-146-AP    | ★384220-S      |
|             | (3) 1/2"-14                   |             | Brass    | 43   | II-146-AS    | ★384897-S      |
|             | 1/8"-27<br>3/8"-18            | 1/2"-14     | Brass    | 44   | II-148-GA    | ★386852-S101   |
|             | 1/8"-27<br>3/8"-18            | 1/2"-14     | Brass    | 44   | II-148-G     | ★386852-S100   |
| 1/4"        | 1/4"-18                       | 1/2"-14     | Brass    | 45   | II-237-H     | ★388737-S100*  |
| 1/2"        | (2) 1/2"-14<br>(1) 3/8"-18    | 1/2"-14     | Brass    | 45   | II-237-G     | ★386723-S100   |
| 3/8"        | (2) 1/8"-27                   | (2) 3/8"-18 | Steel    | 47   | II-275-E     | ★U350417-S101* |

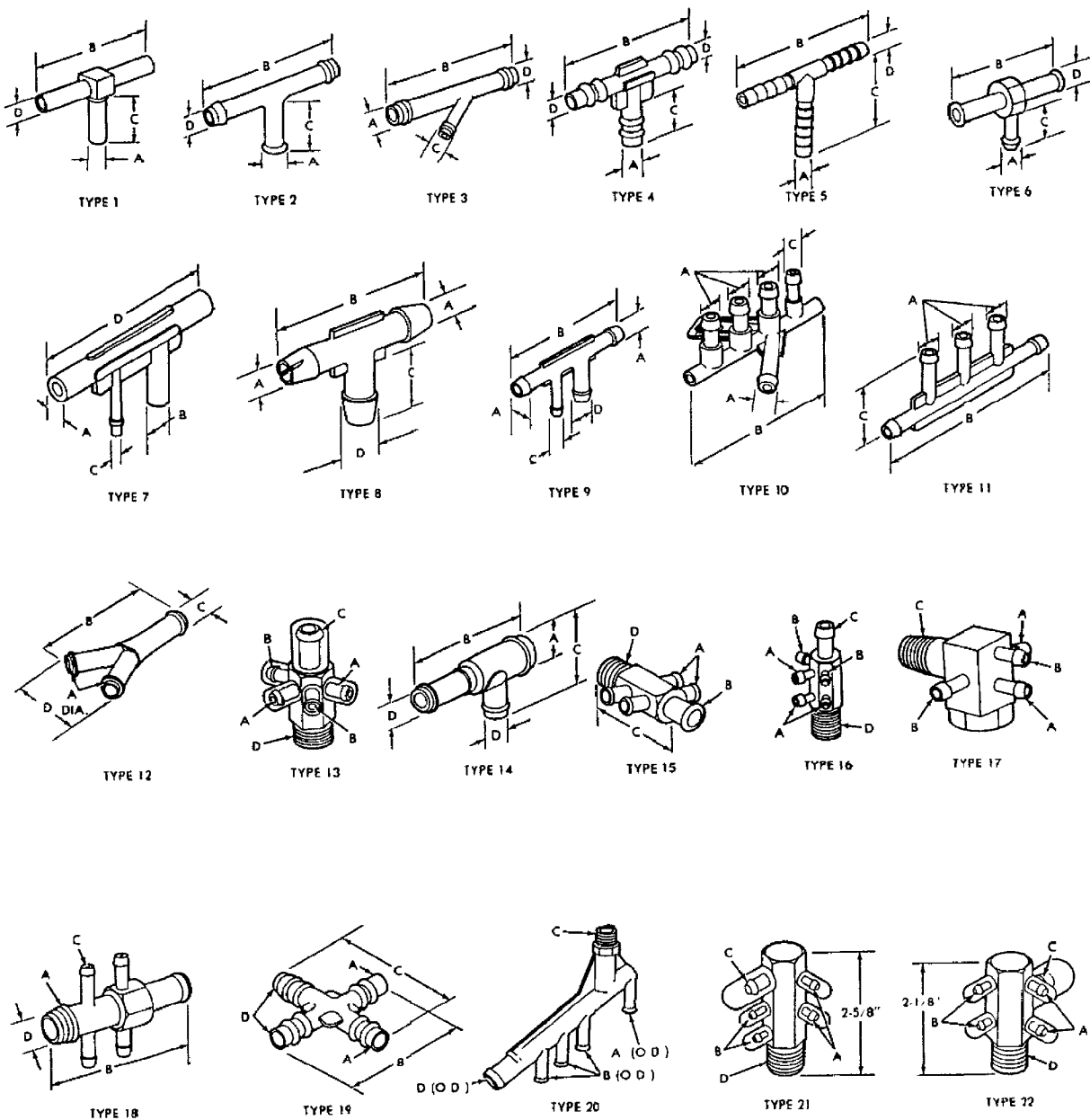
**Metric**

|      |         |                          |       |    |         |               |
|------|---------|--------------------------|-------|----|---------|---------------|
| 1/4" | 1/4"-18 | 1/4"-18                  | Steel | 35 | AI-52   | ★N800967-S100 |
| 1/4" | 1/4"-18 | 1/4"-18                  | Steel | 38 | AI-51   | ★N801113-S100 |
| 1/4" | 1/4"-18 | 1/4"-18                  | Steel | 39 | AI-50   | ★N801112-S100 |
| 1/4" | 1/4"-18 | 1/4"-18                  | Steel | 41 | AI-53-E | ★N800945-S100 |
|      | 3/8"-18 | 1-1/16"-12<br>1-1/16"-14 | Steel | 46 | AI-54   | ★390201-S36   |

\* Includes sealing tape

PH-84

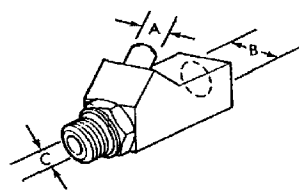
FITTING — HOSE CONNECTOR TEE



PH-84

PH-84(3)

FITTING — HOSE CONNECTOR TEE



PH-84(3)

(continued)

## PH-84(3) FITTING — HOSE CONNECTOR TEE (Cont'd)

| A      | B        | C        | D                | TYPE | LOCATOR CODE | PART NUMBER    |
|--------|----------|----------|------------------|------|--------------|----------------|
| 1/4"   | 1-1/2"   | 1/2"     | 1/4"             | 1    | II-98-KA     | ★373844-S†     |
| 1/4"   | 1-5/8"   | 33/64"   | 1/4"             | 1    | II-98-KB     | ★373843-S†     |
| 1/4"   | 1-5/8"   | 11/16"   | 3/16"            | 1    | II-98-K      | ★374677-S†     |
| 1/4"   | 3-3/16"  | 1-3/64"  | 1/2"             | 1    | II-100-A     | ★377760-Sø     |
| 1/2"   | 3-1/4"   | 1-7/32"  | 1/2"             | 1    | II-99        | ★358296-AS☆    |
| 3/4"   | 3-7/8"   | 15/16"   | 1-1/64"          | 1    | II-100       | ★352112-Sø     |
| 13/64" | 1-5/8"   | 5/8"     | 1/4"             | 2    | II-101       | ★354675-S†     |
| 1/4"   | 2"       | 1"       | 1/4"             | 2    | II-103       | ★353376-A3S#   |
| 1/4"   | 8-3/16"  | 3/4"     | 3/4"             | 2    | II-104-F     | ★387519-S100   |
| 3/8"   | 3"       | 1-1/4"   | 5/8"             | 2    | II-104-FJ    | 389768-S       |
| 3/8"   | 3-3/64"  | —        | 3/4"             | 2    | II-104-B     | 389278-S       |
| 1/2"   | 3"       | 1-1/8"   | 3/4"             | 2    | II-99-A      | ★388842-S      |
| 1/2"   | 3-19/32" | 1-1/2"   |                  | 2    | II-100-B     | 391159-S100    |
| 3/8"   | 2-13/36" | 1-5/32"  | 5/8"             | 2    | II-104-E     | 389344-S100    |
| 5/8"   | 2-1/2"   | 1-1/4"   | 11/16"           | 2    | II-104-D     | ★379428-S☆     |
| 5/8"   | 3"       | 1"       | 3/4"             | 2    | II-104-GH    | ★385847-S8     |
| 3/4"   | 2-59/64" | 1-1/16"  | 3/4"             | 2    | II-104-G     | ★375836-S7-8☆  |
| 3/16"  | 1-27/32" | 3/16"    | 3/16"            | 3    | II-106-NB    | 383013-S†      |
| 1/4"   | 1-1/2"   | 1/8"     | 1/4"             | 3    | II-106-NA    | ★374133-S*     |
| 1/4"   | 1-27/32" | 1/4"     | 1/4"             | 3    | II-106-D     | ★383774-S†     |
| 1/4"   | 2-1/32"  | 1/4"     | 1/4"             | 3    | II-106-DE    | 383014-S†      |
| 3/4"   | 3-19/32" | 3/4"     | 3/4"             | 3    | II-106-DF    | ★388868-S8     |
| 1/8"   | 1-5/8"   | 7/16"    | 1/4"             | 4    | II-06-HA     | ★376009-S†     |
| 9/64"  | 1-7/16"  | 3/8"     | 3/16"            | 4    | II-106-J     | 380709-S†      |
| 3/16"  | 1-7/16"  | 1/4"     | 3/16"            | 4    | II-106-JA    | 373846-S†      |
| 3/16"  | 1-7/16"  | 7/16"    | 3/16" &<br>3/16" | 4    | II-106-H     | ★378830-S†     |
| 1/4"   | 1-1/2"   | 1/2"     | 13/64"           | 4    | II-106-HC    | ★373845-S†     |
| 5/32"  | 2-3/16"  | 1-5/32"  | 3/16"            | 5    | II-106-K     | ★380090-S*     |
| 1/4"   | 3-7/16"  | 3/4"     | 3/4"             | 6    | II-106-P     | ★389600-S36    |
| 1/4"   | 1/4"     | 5/32"    | 2-1/4"           | 7    | II-106-R     | ★374927-S†     |
|        |          |          |                  | 8    | II-106-S     | 383008-S       |
| 3/16"  | 1-21/32" | 5/8"     | 3/16"            | 8    | II-106-T     | ★383007-S†     |
| 1/4"   | 1-3/4"   | 5/8"     | 3/16"            | 8    | II-106-TA    | 383017-S†      |
| 1/4"   | 1-27/32" | 11/16"   | 1/4"             | 8    | II-106-U     | 383009-S†      |
| 3/8"   | 1-13/16" | 19/32"   | 3/8"             | 8    | II-106-UH    | ★388103-S      |
| 3/8"   | 1-13/16" | 29/32"   | 3/8"             | 8    | II-106-UJ    | 388131-S       |
| 3/16"  | 2-5/8"   | 3/16"    | 1/4"             | 9    | II-106-VB    | ★385087-S†     |
| 1/4"   | 2-13/32" | 1/4"     | 1/4"             | 9    | II-106-VA    | 383847-S†      |
| 1/4"   | 2-1/2"   | 3/16"    | 1/4"             | 9    | II-106-V     | ★383018-S†     |
| 1/4"   | 2-1/2"   | 1/8"     |                  | 10   | II-106-VC    | ★383019-S†     |
| 3/16"  | 3-1/64"  | 57/64"   |                  | 11   | II-106-VE    | ★384111-S†     |
| 3/4"   | 5-3/8"   | 1"       | 3-1/64"          | 12   | II-106-VG    | ★384076-S      |
| 3/16"  | 1/4"     | 3/8"     | 3/8"-18          | 13   | II-106-VN    | ★385302-SΔ     |
| 5/8"   | 3-1/32"  | 1-1/2"   | 3/8"             | 14   | II-128-E     | 389160-S       |
| 5/8"   | 3-3/4"   | 1-23/32" | 5/8"             | 14   | II-128-D     | ★388379-S      |
| 3/4"   | 3"       | 1-13/16" | 5/8"             | 14   | II-99-B      | ★388959-S      |
| 3/4"   | 3-3/4"   | 2-13/16" | 13/16"           | 14   | II-99-C      | ★388379-GS     |
| 1"     | 5"       | 2-1/2"   | 3/4"             | 14   | II-98-PC     | ★384505-S40    |
| 1/4"   | 3/8"     | 2-1/8"   | 3/8"-18          | 15   | II-228       | ★386318-S100†† |
| 3/16"  | 1/4"     | 3/8"     | 3/8"-18          | 16   | II-106-WK    | ★386154-S††    |

† Nylon

Δ Includes (1) C9AZ-9C492-A cap, (2) 380613-S cap and (2) 380614-S cap (steel-hex. body 1-27/64" long)

\*\* Includes (2) 380613-S cap, (2) 380614-S cap and (1) 379230-S2 plug

ø Brass

☆ Steel

\* Polyethylene

\* Nylon or Zinc Die Cast

# Zinc

†† Includes (1) C9AZ-9C492-A cap, (4) 380614-S cap and (2) 380613-S cap (steel-hex. body 1-7/16" long)

†† Includes (1) C9AZ-9C492-A cap and (3) 380613-S caps (steel)

(continued)



## PH-84(3) FITTING — HOSE CONNECTOR TEE (Cont'd)

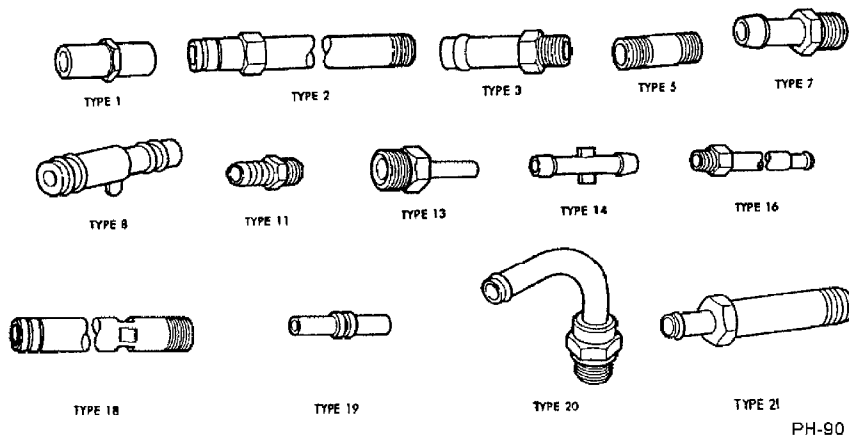
| A      | B       | C       | D       | TYPE | LOCATOR CODE | PART NUMBER    |
|--------|---------|---------|---------|------|--------------|----------------|
| 1/4"   | 3/16"   | 5/8"-18 | 5/8"-18 | 17   | II-225-H     | ★385882-S100** |
| 3/8"   | 2-9/16" | 1/4"    | 3/8"    | 18   | II-232-G     | ★386901-S100   |
| 15/64" | 1-7/16" | 1-3/8"  | 15/64"  | 19   | II-233-G     | 387042-S       |
| 3/16"  | 1/4"    | 3/8"-18 | 3/8"    | 20   | II-244       | 387331-S100    |
| 3/16"  | 1/4"    | 3/8"    | 3/8"-18 | 21   | II-245       | ★388512-S100■  |
| 3/16"  | 1/4"    | 3/8"    | 3/8"-18 | 22   | II-249       | ★388513-S100■  |
| 3/8"   | 1/4"    | 3/4"    |         | 23   | II-253       | ★390037-S      |

### Metric

|       |        |        |       |   |          |            |
|-------|--------|--------|-------|---|----------|------------|
| M10.2 | 46mm   | 15.5mm | 4.2mm | 4 | AI-105-E | ★N801471-S |
| M7    | 47mm   | 26mm   | 7mm   | 5 | AI-100   | ★E855615-S |
| M7    | 76.7mm | 5mm    | 5mm   | 9 | AI-106   | ★N803243-S |

■ Includes (1) C9AZ-9C492-A cap, (2) 380614-S caps and (2) 380613-S caps

## PH-90 FITTING — NIPPLE and REDUCER



| DIAMETER END | THREAD  | LENGTH   | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|---------|----------|----------|------|--------------|---------------|
| 3/4"         | 1/2"-14 | 2-1/16"  | Brass    | 1    | II-7-B       | ★358951-S■    |
| 5/8"         | 3/8"-18 | 5-3/8"   | Steel    | 2    | II-189       | ★351799-S8■   |
| 5/8"         | 3/8"-18 | 6-9/32"  | Steel    | 2    | II-188-L     | ★380686-S■    |
| 5/16"        | 1/8"-27 | 1-11/16" | Steel    | 3    | II-190-E     | ★385873-S2■   |
| 3/8"         | 1/8"-27 | 1-5/8"   | Brass    | 3    | II-190       | ★372554-S■    |
| 3/8"         | 3/8"-18 | 1-5/8"   | Brass    | 3    | II-190-A     | ★381771-S     |
| 3/8"         | 3/8"-18 | 1-5/8"   | Brass    | 3    | II-190-H     | ★353091-S     |
| 1/2"         | 1/4"-18 | 2-1/8"   | Steel    | 3    | II-190-B     | ★390343-S36   |
| 1/2"         | 3/4"-16 | 2-1/4"   | Steel    | 3    | II-190-I     | ★390536-S7    |
| 5/8"         | 3/8"-18 | 1-3/4"   | Steel    | 3    | II-190-F     | 377665-S101   |
| 3/4"         | 1/2"-14 | 1-15/16" | Brass    | 3    | II-190-G     | ★384059-S     |
| 1/8"-27      | 1/8"-27 | 2"       | Brass    | 5    | II-191-C     | ★378675-S■    |
| 3/4"-14      | 3/4"-14 | 1-3/8"   | Steel    | 5    | II-191-F     | ★375420-S7-8■ |
| 7/32"        | 1/8"    | 1-11/16" | Brass    | 7    | II-191-T     | 383976-S      |
| 3/16"        | 3/8"-18 | 1-5/16"  | Brass    | 7    | II-191-AA    | ★380637-S■    |
| 1/4"         | 1/8"-27 | 1-1/4"   | Steel    | 7    | II-191-AB    | ★375542-S■    |
| 1/4"         | 1/8"-27 | 1-21/32" | Brass    | 7    | II-191-AH    | ★383976-S     |
| 5/16"        | 1/8"-27 | 1-25/64" | Steel    | 7    | II-191-K     | ★376148-S8■   |
| 3/8"         | 1/4"-18 | 1-15/32" | Brass    | 7    | II-191-LA    | ★381772-S     |
| 3/8"         | 1/4"-18 | 1-15/32" | Brass    | 7    | II-191-LC    | 381772-S101   |
| 3/8"         | 1/4"-18 | 2-1/64"  | Brass    | 7    | II-191-AC    | ★375903-S     |

■ Pipe Thread

σ Steel or Brass

(continued)

**PH-90**
**FITTING — NIPPLE and REDUCER (Cont'd)**

| DIAMETER END  | THREAD  | LENGTH   | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER   |
|---------------|---------|----------|----------|------|--------------|---------------|
| 3/8"          | 3/8"-18 | 1-11/16" | Steel    | 7    | II-191-AL    | ★382980-S     |
| 1/2"          | 3/4"-16 | 2-5/16"  | Steel    | 7    | II-191-UA    | 390536-S36    |
| 1/2"          | 3/4"-16 | 2-5/16"  | Steel    | 7    | II-191-UA    | 390536-S301   |
| 5/16"         | 1/4"-18 | 1-1/2"   | Steel    | 7    | II-191-UC    | 390063-S102   |
| 5/8"          | 1/4"-18 | 1-7/16"  | Steel    | 7    | II-191-LL    | ★379001-S36■  |
| 5/8"          | 1/2"-14 | 5-3/8"   | Steel    | 7    | II-191-MG    | ★386327-S100■ |
| 3/4"          | 3/4"-14 | 2-5/32"  | Brass    | 7    | II-191-MH    | 380940-S101   |
| 3/4"          | 3/8"-18 | 2"       | Steel    | 7    | II-191-MI    | ★389601-S36   |
| 1/8" & 3/16"  |         | 1-1/8"   | Nylon    | 8    | II-191-N     | ★380124-S     |
| 1/4" to 1/8"  |         | 1-1/8"   | Nylon    | 8    | II-191-S     | ★380731-S     |
| 1/4" to 3/16" |         | 1-15/32" | Nylon    | 8    | II-191-P     | ★376959-S     |
| 1/4"          | 1/8"-27 | 1-1/2"   | Brass    | 11   | II-194-AR    | ★384764-S■    |
| 3/8"          | 3/8"-18 | 1-23/32" | Brass    | 11   | II-191-AQ    | ★383979-S     |
| 3/4"          | 3/4"-14 | 1-7/8"   | Brass    | 11   | II-191-AF    | ★352242-S■    |
| 1/4"          | 5/8"-18 | 1-9/16"  | ø        | 13   | II-191-V     | ★350759-S     |
| 1/8" x 1/8"   |         | 1-1/8"   | Nylon    | 14   | II-191-VE    | ★383000-S     |
| 1/8" x 3/16"  |         | 1-1/4"   | Nylon    | 14   | II-191-VG    | 383001-S      |
| 3/16" x 3/16" |         | 1-23/64" | Nylon    | 14   | II-191-VF    | 383003-S      |
| 3/16" x 1/4"  |         | 1-7/16"  | Nylon    | 14   | II-191-VC    | 383004-S      |
| 1/4" x 1/4"   |         | 1-31/64" | Nylon    | 14   | II-191-VD    | 383005-S      |
| 5/16"         |         | 1-9/16"  | Nylon    | 14   | II-191-VJ    | ★387961-S     |
| 3/8" x 1/4"   |         | 1-1/2"   | Nylon    | 14   | II-191-VH    | ★387759-S     |
| 3/4"          | 3/4"-14 | 29/32"   | Brass    | 16   | II-191-VN    | ★384380-S     |
| 5/8"          | 3/8"-18 | 5-3/8"   | Steel    | 18   | II-189-D     | ★386326-S100■ |
| 13/16"        |         | 2"       | Steel    | 19   | II-191-VT    | ★389009-S8    |
| 1/8" x 1/8"   |         | 1-7/8"   | Rubber   | 19   | II-191-VA    | ★387982-S     |
| 1/2"          | 3/4"-16 | 5"       | Steel    | 20   | II-204       | ★390621-S7    |
| 1/2"          | 3/4"-16 | 2-1/2"   | Steel    | 20   | II-204-H     | ★391068-S36   |
| 3/4"          | 3/4"-14 | 5-3/8"   | Brass    | 21   | II-272-E     | ★390860-S101■ |

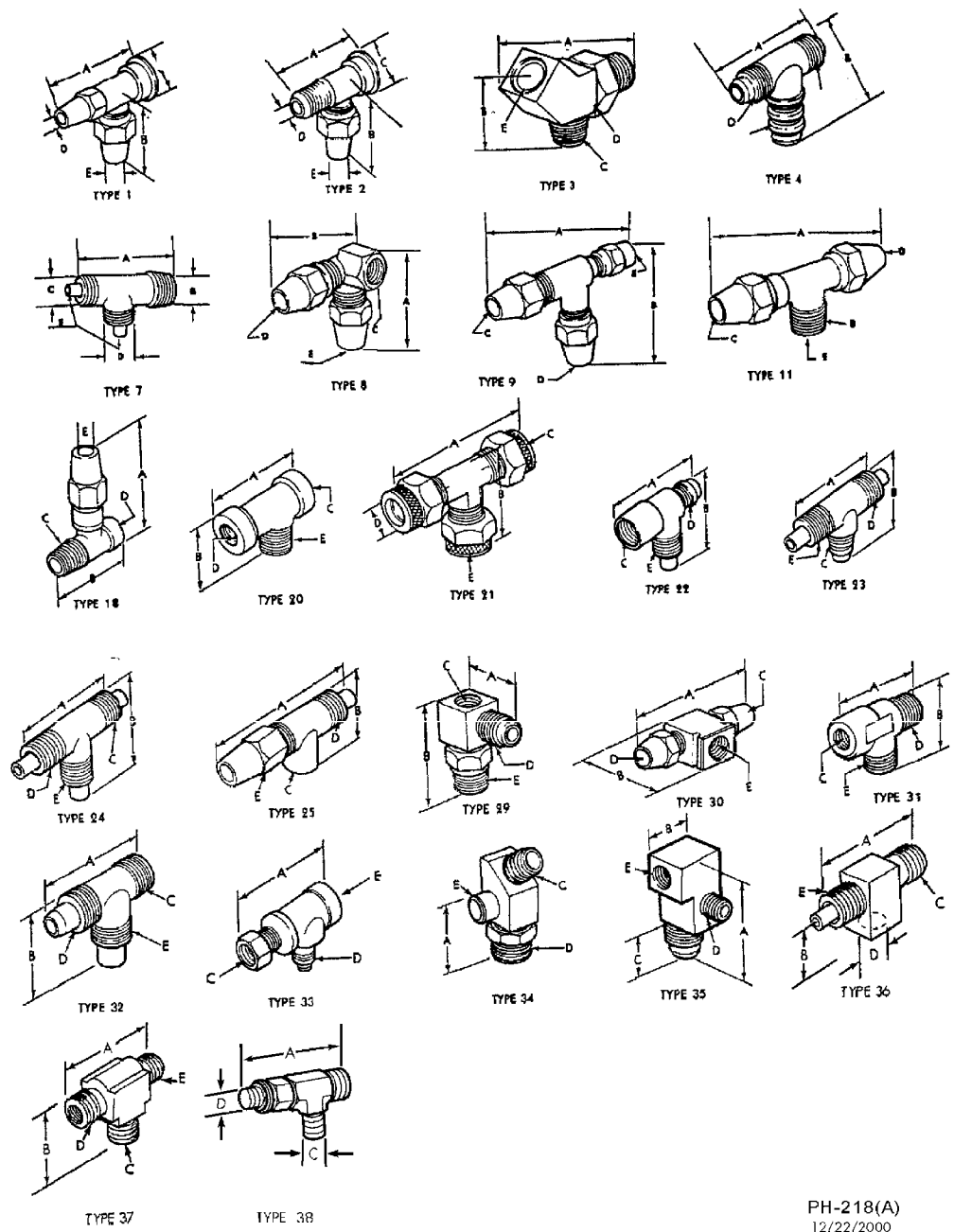
**Metric**

| DIAMETER END | THREAD  | LENGTH | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|---------|--------|----------|------|--------------|--------------|
| M8           | 3/8"-24 | 36.3mm | Steel    | 7    | AI-41        | ★N801958-S36 |
| M10          | 3/8"-18 | 64.5mm | Alum.    | 7    | AI-39        | ★E855094-S   |

■ Pipe Thread

ø Steel or Brass

## PH-218(A) FITTING — TEE ASSY. — 3 WAY ADAPTER TYPE



PH-218(A)  
12/22/2000

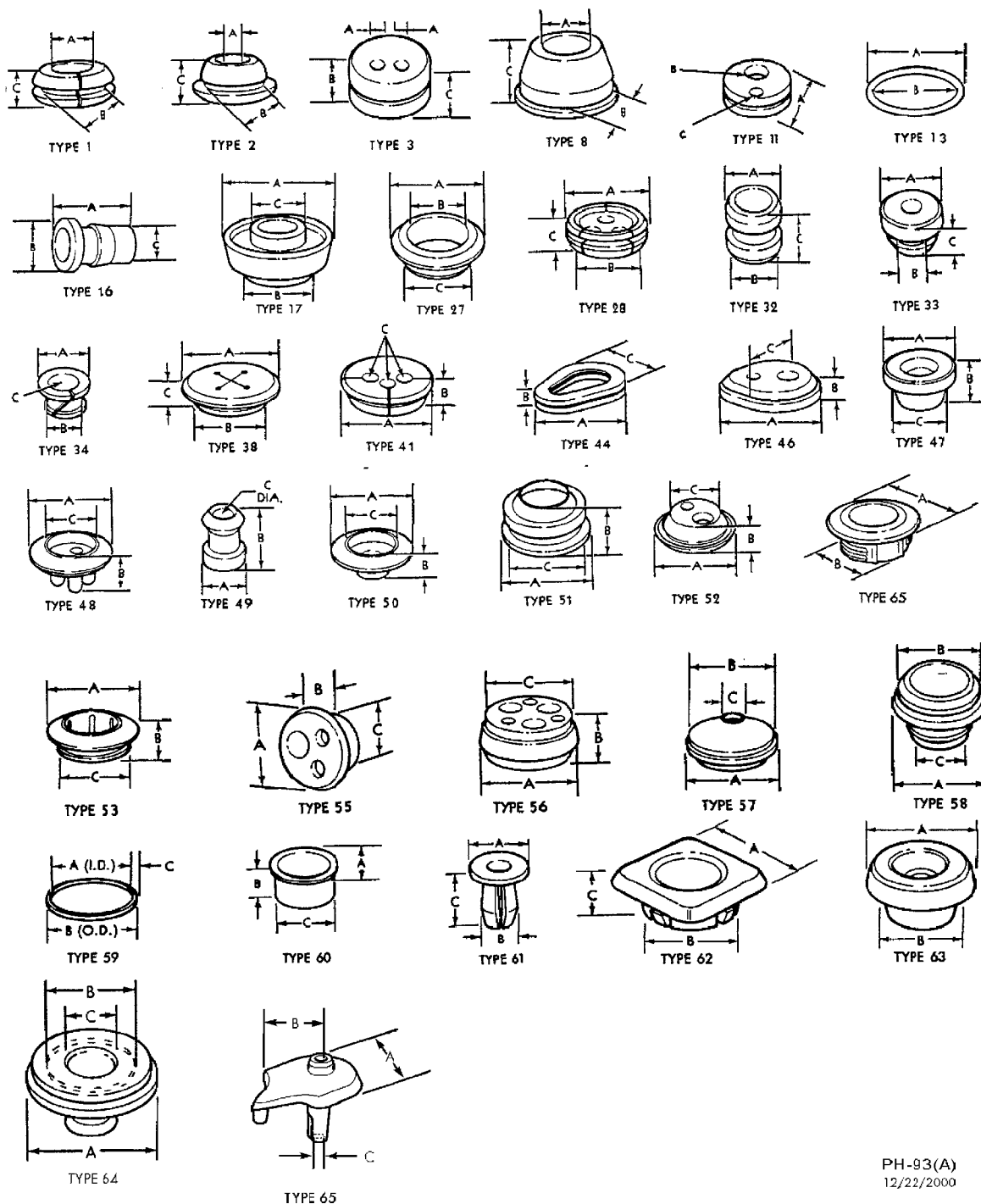
## PH-218(A) FITTING — TEE ASSY. — 3 WAY ADAPTER TYPE (Cont'd)

| A        | B        | C          | D          | E          | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|----------|------------|------------|------------|------|--------------|---------------|
| 3-3/8"   | 2"       | 1/2"-14    | 5/8"       | 3/8"       | 1    | II-192-A     | ★381588-S     |
| 2-63/64" | 1-41/64" | 1/2"-14    | 13/16"-18  | 3/8"-18    | 3    | II-192-B     | ★389556-S101  |
| 3-3/16"  | 2-7/8"   | 7/8"-14    | 7/8"-14    | 7/8"-14    | 4    | II-192-C     | ★389903-S36   |
| 1-3/8"   | 1/8"-27  | 3/8"-24    | 3/8"-24    | 1/8"       | 7    | II-201-E     | ★372947-S     |
| 1-7/16"  | 1/8"-18* | 7/16"-14   | 7/16"-14   | 5/32"      | 7    | II-201-EB    | ★384780-S100  |
| 3"       | 3"       | 1/2"-14    | 5/8"       | 5/8"       | 8    | II-201-H     | ★374175-S     |
| 3-1/4"   | 2-1/32"  | 1/4"       | 1/2"       | 1/2"       | 9    | II-201-MA    | ★378651-S     |
| 3-1/4"   | 2-23/32" | 3/8"       | 1/2"       | 1/2"       | 9    | II-201-L     | ★351990-S     |
| 3-1/2"   | 1/2"-14  | 3/8"       | 3/8"       | 3/8"       | 11   | II-201-R     | ★374553-S     |
| 4-1/8"   | 1/2"-14  | 1/2"       | 3/8"       | 3/4"       | 11   | II-201-S     | ★374554-S     |
| 2-1/2"   | 2-1/4"   | 1/2"-14    | 1/4"-18    | 1/2"       | 18   | II-201-AK    | ★381764-S     |
| 2-13/16" | 1-3/4"   | 3/8"-18    | 1/2"-14    | 1/2"-14    | 20   | II-201-BA    | ★374410-S100  |
| 2-13/16" | 1-3/4"   | 3/8"-18    | 1/2"-14    | 1/2"-14    | 20   | II-201-BB    | 374410-S101   |
| 1-29/64" | 1"       | 3/16"      | 3/16"      | 3/16"      | 21   | II-201-BC    | ★383128-S     |
| 1-13/16" | 1-1/4"   | 3/8"-18    | 3/8"-18    |            | 22   | II-201-BR    | ★374374-S     |
| 1-15/16" | 1-9/16"  | 1/4"-18    | 1/4"-18    | 17/32"-24  | 22   | II-201-BG    | ★383863-S100  |
| 1-15/16" | 1-3/4"   | 3/8"-18    | 1/4"-18    | 11/16"-20  | 22   | II-201-BH    | ★383813-S100  |
| 1-21/64" | 1-29/32" | 1/2"-14    | 1/2"-14    | 11/16"-20  | 22   | II-201-BJ    | ★384399-S100  |
| 1-3/8"   | 1"       | 1/8"       | 7/16"      | 7/16"      | 23   | II-201-BT    | 384266-S      |
| 1-39/64" | 1-1/16"  | 17/32"-24  | 17/32"-24  | 17/32"-24  | 23   | II-201-BL    | ★383818-S     |
| 1-1/4"   | 1-7/16"  | 7/16"-24   | 7/16"-24   | 7/16"-24   | 24   | II-201-BN    | ★386838-S     |
| 2"       | 1-1/4"   | 3/8"-18    | 3/8"-18    | 3/8"-18    | 24   | II-201-BS    | ★U350286-S101 |
| 2-7/32"  | 1-13/64" | 1/4"-18    | 17/32"-24  | 17/32"-24  | 24   | II-201-BP    | ★384188-S100  |
| 2-23/32" | 1-7/8"   | 1/2"-14    | 1/2"-14    | 7/8"-14    | 28   | II-201-DE    | ★389119-S100  |
| 3-5/64"  | 2"       | 3/8"       | 7/8"-14    | 7/8"-14    | 28   | II-201-DF    | ★389980-S101  |
| 1-19/32" | 3-1/4"   | 3/8"-18    | 1-1/16"-14 | 1-1/16"-12 | 29   | II-201-ZJ    | ★388828-S7☆   |
| 2-7/16"  | 2-3/4"   | 3/4"-14    | 1-1/16"-14 | 7/8"-14    | 29   | II-201-ZK    | ★385497-S☆    |
| 3-3/8"   | 2-5/16"  | 3/4"-14    | 1-1/16"-12 | 1-1/16"-14 | 29   | II-201-ZN    | ★387091-S39   |
| 4"       | 1-1/2"   | 1/2"       | 3/8"       | 1-2"-14    | 30   | II-222       | ★381569-S100  |
| 2-1/4"   | 1-3/4"   | 3/8"-18    | 13/16"-18  | 1/2"-14    | 31   | II-223       | ★211106-ED    |
| 2-1/64"  | 1-7/32"  | 3/8"-18    | 11/16"-20  | 17/32"-24  | 32   | II-234-G     | ★386548-S100  |
| 2-1/8"   |          | 7/16"-20   | 7/16"-20   | 1/4"-18    | 33   | II-257-E     | ★388736-S     |
| 1-15/16" |          | 1-1/16"-14 | 1-1/16"-12 | 3/8"-18    | 34   | II-270-B     | ★U350534-S36  |
| 2-3/8"   |          | 1-1/16"-14 | 1-1/16"-12 | 3/8"-18    | 34   | II-270-A     | ★389518-S36   |
| 1-11/16" | 7/8"     | 9/16"-18   | 1/8"-27    | 1/8"-27    | 35   | II-271       | ★390475-S101  |
| 1-3/4"   | 3/4"     | 1/4"-18    | 17/32"-24  | 1/4"-18    | 36   | II-273-E     | ★U350551-S101 |
| 11/16"   | 1-1/2"   | 11/16"-16  | 9/16"-18   | 9/16"      | 37   | II-274-G     | 391642-S      |
| 1-1/2"   | 1"       | 1/2"-24    | 1/2"-24    | 1/8"-27    | 37   | II-274-E     | ★390904-S     |
| 2-1/2"   |          | 11/16"     | 9/16"      |            | 38   | II-275-F     | 391648-S*     |

\* Includes "O" ring and has L.H. threads

☆ Includes nut, flat washer and "O" ring

## PH-93(A) GROMMET and "O" RING



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## PH-93(A) GROMMET and “O” RING (Cont'd)

| A        | B        | C        | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|----------|----------|------|--------------|--------------|
| 1/4"     | 1/2"     | 19/64"   | 1    | KK-12-A      | ★379009-S    |
| 9/32"    | 13/32"   | 15/64"   | 1    | KK-13        | ★373195-S    |
| 5/16"    | 15/32"   | 11/32"   | 1    | KK-56-A      | ★390241-S    |
| 5/16"    | 31/32"   | 1/2"     | 1    | KK-6-A       | ★379628-S    |
| 7/16"    | 3/4"     | 31/64"   | 1    | KK-56-T      | ★374797-S    |
| 5/8"     | 57/64"   | 1/4"     | 1    | KK-13-A      | ★375676-S    |
| 3/4"     | 1-3/8"   | 13/32"   | 1    | KK-56-GE     | ★387927-S    |
| 21/32"   | 29/32"   | 5/32"    | 1    | KK-56-F      | ★373987-S    |
| 1"       | 1-1/4"   | 1/4"     | 1    | KK-56-J      | ★377680-S    |
| 1-1/4"   | 1-1/2"   | 5/16"    | 1    | KK-56-JA     | ★386737-S    |
| 1/4"     | 3/4"     | 7/16"    | 2    | KK-17        | ★352963-S    |
| 13/32"   | 7/8"     | 7/16"    | 2    | KK-23        | 352962-S     |
| 27/64"   | 3/4"     | 5/16"    | 2    | KK-23-A      | ★379150-S    |
| 23/32"   | 1-7/16"  | 7/16"    | 2    | KK-23-F      | ★377394-S    |
| 31/32"   | 1-7/16"  | 7/16"    | 2    | KK-24-C      | ★377393-S    |
| 23/64"   | 1        | 5/8"     | 2    | KK-23-G      | ★390054-S    |
| 1/4"     | 1/2"     | 1"       | 3    | KK-26-C      | ★371840-S    |
|          | 15/32"   | 1-1/4"   | 3    | KK-26-E      | ★388567-S    |
| 25/32"   | 1-1/4"   | 13/16"   | 8    | KK-94        | ★382745-S    |
| 1-1/4"   | 1/2"     | 9/32"    | 11   | KK-41        | ★373114-S    |
| 3/16"    | 3/64"    | —        | 13   | KK-48-F      | 387571-S     |
| 3/16"    | 3/64"    |          | 13   | KK-48-F      | 387571-S100  |
| 1/4"     | 13/64"   |          | 13   | KK-42-A      | ★387497-S94  |
| 17/64"   | 15/64"   |          | 13   | KK-42-B      | ★389140-S96  |
| 5/16"    | 15/64"   |          | 13   | KK-42-D      | ★387041-S96  |
| 41/64"   | 35/64"   |          | 13   | KK-42-E      | 380978-S     |
| 27/64"   | 5/16"    |          | 13   | KK-42-X      | ★372454-S94  |
| 31/64"   | 11/32"   |          | 13   | KK-43-B      | ★380892-S94  |
| 9/16"    | 3/8"     |          | 13   | KK-95        | 386078-S     |
| 9/16"    | 7/16"    |          | 13   | KK-97        | 380977-S     |
| 5/8"     | 15/32"   |          | 13   | KK-48-A      | ★377159-S    |
| 3/4"     | 31/64"   |          | 13   | KK-44-E      | ★388477-S    |
| 3/4"     | 31/64"   |          | 13   | KK-44-EA     | ★389708-S    |
| 7/8"     | 3/4"     |          | 13   | KK-44-EB     | 391032-S     |
| 25/32"   | 9/16"    |          | 13   | KK-46-F      | 384975-S94   |
| 51/64"   | 1"       |          | 13   | KK-45-A      | ★387195-S    |
| 53/64"   | 49/64"   |          | 13   | KK-45        | ★377682-S    |
| 1-7/64"  | 47/64"   |          | 13   | KK-49        | ★370367-S100 |
| 1-39/64" | 1-15/64" |          | 13   | KK-53        | ★372306-S    |
| 2-11/64" | 1-57/64" |          | 13   | KK-50        | ★372984-S94  |
| 2-1/4"   | 1-13/16" |          | 13   | KK-52        | ★370322-S92  |
| 2-1/4"   | 2-1/8"   |          | 13   | KK-52-A      | ★378391-S    |
| 2-11/16" | 3"       |          | 13   | KK-52-CG     | ★385348-S    |
| 2-13/16" | 2-39/64" |          | 13   | KK-52-BB     | ★382743-S    |
| 2-57/64" | 2-39/64" |          | 13   | KK-47        | ★373351-S    |
| 2-63/64" | 2-45/64" |          | 13   | KK-52-C      | ★377130-S94  |
| 3"       | 2-25/32" |          | 13   | KK-52-CC     | ★384977-S94  |
| 3"       | 2-25/32" |          | 13   | KK-52-CD     | ★385643-S94  |
| 3-1/2"   | 3-1/4"   |          | 13   | KK-52-E      | ★386546-S    |
| 4-3/8"   | 4-7/64"  |          | 13   | KK-52-DA     | ★386545-S    |
| 7-5/8"   | 7-5/16"  |          | 13   | KK-53-G      | ★376950-S    |
| 1-41/64" | 1-1/8"   | 5/8"     | 16   | KK-56        | ★372742-S    |
| 1-31/32" | 1-1/2"   | 1"       | 17   | KK-56-C      | ★389283-S    |
| 1"       | 7/16"    | 13/16"   | 27   | KK-56-V      | ★382494-S    |
| 1"       | 47/64"   | 35/64"   | 27   | KK-56-U      | ★375309-S    |
| 1-27/64" | 1/4"     | 1-13/64" | 27   | KK-56-E      | ★383579-S    |
| 1-27/64" | 5/16"    | 1-13/64" | 27   | KK-56-VF     | ★385558-S    |
| 1-13/32" | 1-3/16"  | 23/64"   | 28   | KK-66        | ★374496-S    |
| 19/32"   | 33/64"   | 1/2"     | 32   | KK-71-A      | 379998-S     |
| 1-3/8"   | 1"       | 13/16"   | 34   | KK-73-F      | 374311-S     |
| 2-3/8"   | 1-7/8"   | 23/64"   | 38   | KK-77        | ★382192-S    |
| 1-11/16" | 17/32"   | 1"       | 41   | KK-89        | ★384084-S    |
| 2-3/16"  | 19/64"   | 1-11/16" | 44   | KK-84        | ★374277-S    |

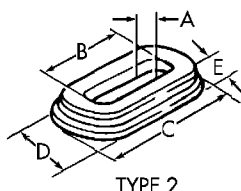
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|  |             |          |      |              |               |
|--|-------------|----------|------|--------------|---------------|
| 150                                    |             |          |      |              |               |
| Standard and Utility Parts Catalog     |             |          |      |              |               |
| PH-93(A) GROMMET and “O” RING (Cont'd) |             |          |      |              |               |
| A                                      | B           | C        | TYPE | LOCATOR CODE | PART NUMBER   |
| 1-3/8"                                 | 5/16"       | 1-1/4"   | 46   | KK-86        | ★383062-S     |
| 1-5/8"                                 | 29/32"      | 1-3/64"  | 48   | KK-88        | ★383944-S     |
| 51/64"                                 | 55/64"      | 11/32"   | 49   | KK-88-L      | ★384369-S     |
| 1-15/16"                               | 31/64"      | 1-9/16"  | 51   | KK-91        | ★384077-S     |
| 1-11/16"                               | 35/64"      | 1"       | 52   | KK-92        | ★384355-S     |
| 2-51/64"                               | 3/4"        | 2-7/32"  | 52   | KK-96        | ★386320-S     |
| 1"                                     | 13/32"      | 1-5/16"  | 53   | KK-93-C      | ★388025-S     |
| 1-5/16"                                | 13/32"      | 51/64"   | 53   | KK-93-E      | ★384646-S     |
| 1-9/16"                                | 7/16"       | 1-7/32"  | 53   | KK-93        | ★384647-S     |
| 1-5/8"                                 | 35/64"      | 1"       | 55   | KK-89-A      | ★385152-S     |
| 2-3/16"                                | 29/32"      | 1-27/32" | 56   | KK-99        | ★386907-S     |
| 27/64"                                 | 5/64"       |          | 59   | KK-102       | 391131        |
| 2-3/8"                                 |             |          | 59   | KK-100       | 87072-S100    |
| 2-1/4"                                 |             |          | 59   | KK-101       | 87071-S100    |
| 1-1/2"                                 | 1"          | 1/8"     | 63   | KK-106       | ★380634-S     |
| 1-13/64"                               | 27/32"      | 39/64"   | 64   | KK-107-E     | ★U350408-S    |
| 1-35/64"                               | 63/64"      | 1"       | 65   | KK-107-F     | 384647-S      |
| Metric                                 |             |          |      |              |               |
| M6.5                                   | 16mm        | 8mm      | 1    | AK-20-E      | ★N801542-S    |
| M7                                     | 15.7mm      | 9.7mm    | 1    | AK-20-F      | ★E890270-S    |
| M9                                     | 13mm        | 6mm      | 1    | AK-20        | ★E890113-S    |
| M17.5                                  | 29mm        |          | 1    | AK-7-L       | N811270-S     |
| M4.5                                   | 7.3mm       | 6.2mm    | 2    | AK-15        | ★E890208-S    |
| M8                                     | 11.8mm      | 11.5mm   | 2    | AK-7-H       | ★E890064-S    |
| M9                                     | 42.3mm      | 2mm      | 2    | AK-7-E       | ★E890294-S    |
| M10                                    | 20.5mm      | 10.9mm   | 2    | AK-7-B       | ★N803899-S    |
| M10                                    | 25.5mm      | 9mm      | 2    | AK-7-A       | ★N803900-S    |
| M10                                    | 19 x 25.4mm | 11.9mm   | 2    | AK-7-C       | ★N803901-S    |
| M30.2                                  | 49.8mm      | 8.6mm    | 2    | AK-7-J       | N806927-S     |
| M7.1                                   | 29mm        | 9mm      | 4    | AK-7-D       | ★N803653-S    |
| M18                                    | 15.6mm      | 2.62mm   | 12   | 640-010      | W701746-S     |
| M7                                     | 1.85mm      |          | 13   | AK-2-B       | N807543-S     |
| M7                                     | 5mm         |          | 13   | AK-3-B       | ★E853148-S    |
| M14                                    | 10mm        |          | 13   | AK-2-C       | ★E853116-S    |
| M16.3                                  | 11.3mm      | 2.5mm    | 13   | AK-2-F       | ★E853104-S    |
| M17.13                                 | 13.11mm     | Rubber   | 13   | AK-7-K       | ★W701994      |
| M19.8                                  | 15mm        |          | 13   | AK-3-J       | ★E853126-S    |
| M19                                    | 15.6mm      |          | 13   | AK-3-H       | ★E853110-S    |
| M20.45                                 | 16.25mm     |          | 13   | AK-3-A       | ★N803775-S    |
| M24.5                                  | 20.5mm      |          | 13   | AK-3-M       | ★E854056-S    |
| 24.6mm                                 | 17.0mm      | —        | 13   | AK-3-MA      | W706193-S300  |
| M30.6                                  | 24.2mm      |          | 13   | AK-3-P       | ★N801150-S    |
| M53                                    | 46mm        |          | 13   | AK-4         | ★116682-ES    |
| M53                                    | 45.87mm     |          | 13   | AK-4-C       | W700741-S300  |
| M17.5                                  | 9.8mm       | 15.5mm   | 32   | AK-6         | ★N802713-S    |
| M4.5                                   | 10mm        | 10.6mm   | 33   | AK-8-C       | ★N806482-S    |
| M7.5                                   | 11.0mm      | 9.25mm   | 33   | AK-8-B       | N807994-S     |
| 11.5mm                                 | 10.5mm      | 9.5mm    | 33   | AK-8-C       | W708551-S300  |
| M16                                    | 11.5mm      | 14.3mm   | 33   | AK-8         | ★N805452-S    |
| M26                                    | 13.8mm      | 9.5mm    | 33   | AK-8A        | ★N803813-S    |
| 16mm                                   | 15.2mm      | 5.0mm    | 47   | AK-5         | W709484-S300  |
| M22                                    | 15mm        | 9mm      | 50   | AK-14        | ★E890061-S    |
| M30                                    | 12.5mm      | 20mm     | 53   | AK-19        | ★E890274-S    |
| M30.2                                  | 9mm         | 23.2mm   | 53   | AK-93        | ★N804224-S    |
| M26.5                                  | 25mm        | 5.8mm    | 57   | AK-16-E      | ★E890231-S    |
| 16.0mm                                 | 14.55mm     | 7.8mm    | 58   | AK-10-A      | W707780-S300  |
| —                                      | 12.725      | 1.57     | 59   | AK-16-A      | W705355-S300  |
| M7.3                                   | 9.11mm      | 1.85mm   | 59   | AK-16-H      | ★W701720-S300 |
| M9                                     | 19.5mm      |          | 59   | AK-16-J      | ★W706035-S300 |
| 10.8mm                                 | —           | 2.62mm   | 59   | AK-16-HC     | W707718-S300  |
| M10.16                                 | 13.86mm     | 1.85mm   | 59   | AK-16-G      | ★W701460-S300 |
| 11.6mm                                 | —           | 1.78mm   | 59   | AK-16-GA     | W702015-S300  |
| (continued)                            |             |          |      |              |               |

## PH-93(A) GROMMET and “O” RING (Cont'd)

| Metric (cont'd) |         |         |      |              |                |
|-----------------|---------|---------|------|--------------|----------------|
| A               | B       | C       | TYPE | LOCATOR CODE | PART NUMBER    |
| M12.93          | 14.79mm | 1.86mm  | 59   | AK-16-F      | ★ W701426-S300 |
| Rubber          | 12mm    | 2.2mm   | 59   | AK-16-HA     | ★ W703343-S300 |
| Rubber          | 12mm    | 2.2mm   | 59   | AK-16-HB     | W703343-S      |
| M44.5           |         | 2.26mm  | 59   | AK-16-L      | W705066-S300   |
| M71             |         | 3mm     | 59   | AK-16-K      | W703119-S300   |
| M131.1          | 124.3mm | 3.4mm   | 59   | AK-17        | ★ N801149-S    |
| M19.81          | 9.50mm  | 14.86mm | 60   | AK-21-A      | ★ N803343-S    |
| M25.4           | 13.2mm  | 14.86mm | 60   | AK-21-B      | ★ N803354-S    |
| M9              | 15mm    | 8.75mm  | 61   | AK-22-A      | W706544-S300   |
| 23mm            | 13mm    | 20mm    | 61   | AK-22        | W710677-S300   |
| M31.8           | 31.8mm  | 10mm    | 62   | AK-23        | ★ E804402-S    |
| M19.05          | 11.91mm |         | 63   | AK-24        | ★ E890288-S    |
| M24             | 5mm     | 3.5mm   | 65   | AK-25-A      | W707606-S300   |

## PH-94 GROMMET — SPECIAL — RUBBER



TYPE 2

PH94

| A      | B        | C        | D       | E     | TYPE | LOCATOR CODE | PART NUMBER |
|--------|----------|----------|---------|-------|------|--------------|-------------|
| 15/32" | 2-17/32" | 2-25/32" | 2-1/32" | 7/16" | 2    | KK-63-G      | ★ 388265-S  |
| Metric |          |          |         |       |      |              |             |
|        |          | 102mm    | 60mm    | 9mm   | 2    | AK-18-L      | ★ N801550-S |
| M5     | 26mm     | 36mm     | 15mm    | 9.5mm | 2    | AK-18-E      | ★ E890246-S |

## PH-158 INSERT



TYPE 1

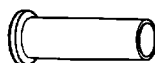


TYPE 2

PH158

| OUTSIDE THREAD | INSIDE THREAD | LENGTH | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|----------------|---------------|--------|----------|------|--------------|-------------|
| 5/8"-11        | 7/16"-14      | 1-1/8" | Steel    | 1    | UU-136       | ★ 351418-S  |
| 5/8"-11        | 3/8"-16       | 15/16" | Steel    | 2    | UU-135       | ★ 351693-S  |

## PH-722 INSERT — TUBE



TYPE 2

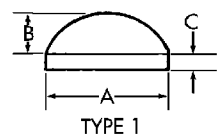
PH722

| TUBE SIZE | OUTSIDE DIAMETER | OVERALL LENGTH | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|-----------|------------------|----------------|----------|------|--------------|-------------|
| 1/2"      | 3/8"             | 13/16"         | Brass    | 2    | UU-220       | ★ 384164-S  |



# Standard and Utility Parts Catalog

## PH-95      KEY — WOODRUFF



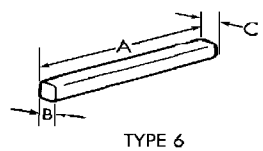
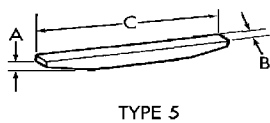
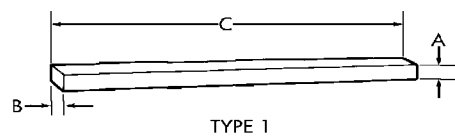
PH95

| A        | B      | C     | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|-------|------|--------------|-------------|
| 3/8"     | 25/64" | 1/4"  | 1    | LL-13        | ★370339-S   |
| 1-13/32" | 5/16"  | 3/16" | 1    | LL-17-A      | ★388907-S   |
| 1-13/32" | 11/32" | 3/16" | 1    | LL-12-A      | ★378704-S   |
| 1-23/32" | 19/64" | 3/16" | 1    | LL-11-A      | ★379153-S   |
| 1-23/32" | 1/2"   | 3/8"  | 1    | LL-10        | ★357630-S   |
| 1-3/4"   | 7/32"  | 3/16" | 1    | LL-11        | ★372854-S   |
| 1-3/4"   | 23/64" | 3/16" | 1    | LL-12        | ★358985-S   |
| 1-3/4"   | 3/8"   | 3/16" | 1    | LL-11-B      | 390398-S    |

Metric

|       |        |       |   |         |            |
|-------|--------|-------|---|---------|------------|
| M15.7 | 6.5mm  | 5.0mm | 1 | AL-10-F | ★N802548-S |
| M16   | 6.50mm | 4.9mm | 1 | AL-10-E | ★N800609-S |

## PH-205      KEY — SQUARE

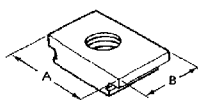


PH205

| A     | B     | C        | TYPE | LOCATOR CODE | PART NUMBER |
|-------|-------|----------|------|--------------|-------------|
| 3/16" | 1/4"  | 1-1/2"   | 1    | LL-1-C       | ★378705-S   |
| 1/4"  | 1/4"  | 49/64"   | 1    | LL-2         | ★358963-S   |
| 5/16" | 5/16" | 3-1/2"   | 1    | LL-7         | ★356967-S   |
| 5/16" | 5/16" | 4-3/64"  | 1    | LL-7-C       | ★376717-S   |
| 1/4"  | 3/8"  | 3-3/4"   | 5    | LL-9-H       | ★378538-S   |
| 5/16" | 3/8"  | 1-29/32" | 5    | LL-9-A       | ★390507-S   |

Metric

|       |        |         |   |        |               |
|-------|--------|---------|---|--------|---------------|
| M3.95 | 3.98mm | 12.95mm | 1 | AL-1-F | ★N802926-S    |
| M5.94 | 5.94mm | 15.8mm  | 1 | AL-1-G | ★N802043-S100 |
| M20   | 4mm    | 4mm     | 6 | AL-1-E | ★E866021-S    |

**PH-223**
**NUT**


TYPE 1



TYPE 2

PH-223

**Metric**

| DIAMETER | THREAD | A       | B       | TYPE | LOCATOR CODE | P/C | PART NUMBER   |
|----------|--------|---------|---------|------|--------------|-----|---------------|
| M8       |        | 17.5mm  | 12.6mm  | 1    | AM-86-B      | 9   | N621824-S     |
| M8       | 1.25   | 19mm    | 6.5mm   | 1    | AM-86-BA     |     | ★N805323-S56C |
| M8       | 1.25   | 20.65mm | 14.22mm | 1    | AM-86-C      | —   | N804313-S     |
| M10      | 1.5    | 14.2mm  | 19.1mm  | 1    | AM-86-A      | 9   | N621776-S     |
| M6       |        | 9mm     | 9mm     | 2    | AM-86-D      | —   | ★E826036-S100 |
| M6       |        | 25mm    | 25mm    | 2    | AM-86-E      | 4   | ★E826094-S    |

**PH-98**
**NUT — CROWN**

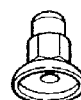

TYPE 1



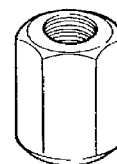
TYPE 2



TYPE 3



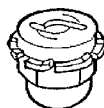
TYPE 4



TYPE 5



TYPE 6



TYPE 7

PH-98

| DIAMETER | THREAD         | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER   |
|----------|----------------|--------------------|-----------|------|--------------|-------|---------------|
| No. 8    | 32             | 11/32"             | 9/32"     | 1    | MM-115-D     | 5     | ★377522-S100  |
| No. 8    | 32             | 3/8"               | 3/8"      | 1    | MM-115-DA    | 2     | ★384447-S100  |
| No. 10   | 24             | 1/2"               | 3/8"      | 1    | MM-115-E     | 2     | ★375964-S7    |
| 5/32"    | Self Threading | 3/8"               | 9/16"     | 2    | MM-118-J     | 5     | ★382309-S100■ |
| 5/32"    | Self Threading | 7/16"              | 25/32"    | 2    | MM-118-K     | 2     | ★384652-S100■ |
| 5/32"    | Self Threading | 7/16"              |           | 2    | MM-118-KK    | 2     | ★384652-S101■ |
| 1/4"     | 20             | 7/16"              | 15/32"    | 3    | MM-118-N     | 2     | ★388082-S     |
| 5/16"    | 24             | 1/2"               | 45/64"    | 3    | MM-3         | 2     | ★354577-S13   |
| 5/16"    | 32             | 7/16"              | 21/32"    | 3    | MM-5         | 2     | ★359695-S13   |
| No. 8    | Self Threading | 7/16"              | 13/32"    | 3    | MM-118-KE    | 2     | ★384441-S100  |
| 3/8"     | 24             | 1/2"               | 21/32"    | 3    | MM-5-A       | 2     | ★375640-S13   |
| 3/8"     | 16             | 9/16"              | 5/8"      | 3    | MM-5-B       | 2     | ★388083-S     |
| 3/8"     | 16             | 9/16"              | 5/8"      | 3    | MM-5-C       | 2     | 391120-S      |
| No. 10   | Self Threading | 3/8"               |           | 4    | MM-5-G       | —     | ★380865-SΔ    |

■ Includes Sealer

Δ Polypropylene

(continued)

# Standard and Utility Parts Catalog

PH-98      NUT — CROWN (Cont'd)

| Metric       |                    |           |      |              |     |                 |
|--------------|--------------------|-----------|------|--------------|-----|-----------------|
| NOMINAL SIZE | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C | PART NUMBER     |
| M5           | 18.0mm             | 13.2mm    | 1    | AM-49-EB     |     | N808184-S       |
| M12          | 19mm               | 16mm      | 1    | AM-154       | 6   | ★ E826246-S72   |
| M4           | 8.8mm              | 6.3mm     | 2    | AM-60-Y      |     | N620361-S36     |
| M4           | 13.32mm            | 13mm      | 2    | AM-60-YM     | —   | N805296-S100    |
| M4           | 13.32mm            | 13mm      | 2    | AM-60-YP     | —   | N805296-S101    |
| M4           | 13.32mm            | 13mm      | 2    | AM-60-YR     | —   | N805296-S55M    |
| M4           | 10mm               | 14.7mm    | 2    | AM-60-YN     |     | N620365-S36     |
| M6           | 11mm               | 24mm      | 2    | AM-60-B      |     | N804701-S36     |
| M6           | 11mm               | 27mm      | 2    | AM-60-A      |     | ★ N804399-S36   |
| M6           | 13mm               | 16mm      | 2    | AM-60-C      | 8   | ★ N805169-S     |
| M6           | 13mm               | 25mm      | 2    | AM-62-E      | 5   | ★ N800475-S100  |
| M4           | 10mm               | 9.7mm     | 3    | AM-49-E      | 5   | ★ N800354-S100■ |
| M4           | 10mm               | 9.7mm     | 3    | AM-49-EA     | 5   | N800354-S102■   |
| M5           | 10.0mm             | 12.9mm    | 3    | AM-67-P      |     | ★ N623402-S301  |
| M6           | 17.5mm             | 25.5mm    | 3    | AM-60-J      |     | N800475-S101    |
| M6           | 10mm               | 11.9mm    | 3    | AM-60-H      | 9   | ★ N800927-S39   |
| M4           | 13.88mm            | 13.0mm    | 3    | AM-60-K      |     | N807370-S100    |
| M4           | 17.50mm            | 14.15mm   | 3    | AM-60-M      | —   | N811241-S100    |
| M5           | 12.3mm             | 13.0mm    | 3    | AM-67-N      |     | N803044-S102    |
| M8           | 13mm               | 11mm      | 3    | AM-60        | 4   | ★ E822044-S72   |
| M8           | 17.6mm             | 10.3mm    | 3    | AM-67-M      |     | ★ N620481-S56   |
| M10          | 15mm               | 19.8mm    | 3    | AM-67-E      | 5   | ★ N800926-S39   |
| M18          | 30.2mm             | 45mm      | 5    | AM-67-J      | 8   | N806301-S150    |
| M5           | 12.3mm             | 14.1mm    | 6    | AM-67-K      |     | ★ N803044-S101  |
| M6           | —                  | 11.0mm    | 6    | AM-67-L      | —   | ★ N623403-S36M  |
| M5           | 10.9mm             | 14.3mm    | 7    | AM-67-A      |     | N806539-S101    |

■ Includes Sealer

PH-221      NUT — HEXAGON — SPECIAL



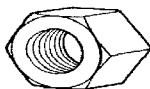
PH221

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER  |
|----------|--------|--------------------|-----------|--------------|-------|--------------|
| 3/8"     | 32     | 9/16"              | 3/32"     | MM-121-M     | 2     | ★ 355987-S8  |
| 7/16"    | 20     | 5/8"               | 5/32"     | MM-121-ZE    | 2     | ★ 379800-S2  |
| 7/16"    | 28     | 5/8"               | 7/64"     | MM-121-ZF    | 5     | ★ 351038-S2  |
| 1/2"     | 28     | 11/16"             | 1/8"      | MM-122-A     | 2     | ★ 356098-S2  |
| 5/8"     | 18     | 15/16"             | 3/16"     | MM-123-B     | 2     | ★ 378720-S2  |
| 7/8"     | 20     | 1-1/8"             | 5/32"     | MM-125-A     | 5     | ★ 379915-S2  |
| 7/8"     | 20     | 1-1/4"             | 7/32"     | MM-125-AA    | 2     | ★ 383671-S2  |
| 1-1/16"  | 18     | 1-3/8"             | 9/32      | MM-125-AB    | —     | 391634-S     |
| 1-1/4"   | 18     | 1-5/8"             | 5/16"     | MM-126-E     | 5     | ★ 356642-S36 |
| 2-1/2"   | 12     | 3-1/4"             | 5/8"      | MM-127       | 2     | ★ 352056-S2  |

| Metric   |        |                    |           |              |       |               |
|----------|--------|--------------------|-----------|--------------|-------|---------------|
| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER   |
| M8       |        | 13mm               | 4mm       | AM-68-C      |       | ★ E620333-S72 |
| M16      |        | 24mm               | 8mm       | AM-68-GE     | 6     | ★ E820030S-72 |
| M24      |        | 30mm               | 5mm       | AM-68-H      | 6     | ★ E820043-S71 |

PH-106

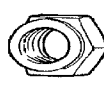
NUT — HEXAGON



TYPE 1



TYPE 2



TYPE 3



TYPE 4

PH-106

## National Coarse Thread

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER    |
|----------|--------|--------------------|-----------|------|--------------|-------|----------------|
| 13/16"   | 16     | 9/16"              | 27/64"    | 1    | MM-14-C      | 5     | 45358-S60      |
| 7/16"    | 14     | 5/8"               | 3/8"      | 2    | MM-151-EM    | 8     | 375636-S7      |
| 7/16"    | 14     | 11/16"             | 3/8"      | 2    | MM-151-EK    | 5     | 383859-S2      |
| 3/4"     | 16     | 1-1/8"             | 1/4"      | 2    | MM-151-A     | —     | ★ 359041-S8    |
| 5/16"    | 18     |                    |           | 4    | MM-38-F      | 8     | ★ W520103-S309 |
| 13/16"   | 20     | 1-1/8"             | 11/32"    | 2    | MM-38-G      | 5     | 383840-S100    |
| 21/32"   | 20     | 15/16"             | 13/32"    | 4    | MM-54-BD     |       | 391042-S36B    |

## National Fine Thread

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|------|--------------|-------|-------------|
| 5/16"    | 24     | 7/16"              | 7/32"     | 1    | MM-20        | 2     | 351089-S8   |
| 7/8"     | 14     | 1-19/64"           | 7/16"     | 2    | MM-38-FB     | 8     | 380771-S101 |
| 7/8"     | 14     | 1-19/64"           | 7/16"     | 2    | MM-38-FB     | 8     | 380771-S301 |

## Special Thread

|        |    |        |        |   |         |   |                |
|--------|----|--------|--------|---|---------|---|----------------|
| 11/16" | 18 | 1-1/8" | 7/16"  | 1 | MM-40-D | 5 | ★ 380517-S100Δ |
| 11/16" | 20 | 15/16" | 17/64" | 1 | MM-42   | 5 | 351124-S       |

## Metric Coarse Thread

| NOMINAL SIZE | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C   | PART NUMBER    |
|--------------|--------------------|-----------|------|--------------|-------|----------------|
| M4.2         | —                  | 1.41mm    | 1    | AM-2-JA      | —     | W705992-S301   |
| M5           | 15mm               | 10.7mm    | 1    | AM-2-M       | 9     | N620042-S100   |
| M6           | 10mm               | 6.5mm     | 1    | AM-13-W      |       | N620040-S36    |
| M6           | 14.2mm             | 6.0mm     | 1    | AM-13-X      | 8     | W706131-S441   |
| M8           | 13mm               | 6.8mm     | 1    | AM-13-CCC    | 10    | W520503-S306   |
| M8           | 13mm               | 7.5mm     | 1    | AM-11-EE     | 9     | N620041-S51    |
| M8           | 14mm               | 7mm       | 1    | AM-13-CC     | 8     | W704577-S309   |
| M8           | 15mm               | 7.5mm     | 1    | AM-13-CA     |       | N804758-S2     |
| M8           | 15mm               | 7.5mm     | 1    | AM-13-CB     |       | N804758-S309   |
| M8           | 15mm               | 7.5mm     | 1    | AM-13-CB     | —     | N804758-S440   |
| M10          | 13.6mm             |           | 1    | AM-13-CC     | 10    | ★ N807145-S427 |
| M10          | 15mm               | 10.7mm    | 1    | AM-12-B      | 8     | N620042-S36    |
| M12          | 17.9mm             | 13.00mm   | 1    | AM-12-J      | 10    | W710922-S440   |
| M12          | 19mm               | 10mm      | 1    | AM-13-D      | 5     | N620015-S      |
| M14          | 21mm               | 8mm       | 1    | AM-13-AA     | 9     | N800287-S36    |
| M4           | 9.00mm             | 6.5mm     | 2    | AM-2-N       | —     | N620360-S36    |
| M4           | 9.00mm             | 6.5mm     | 2    | AM-2-N       | —     | N620360-S424   |
| M4           | 10mm               | 4mm       | 2    | AM-2-EA      | 8     | W520410-S301   |
| M4           | 10mm               | 4mm       | 2    | AM-2-EA      | 8     | ★ W520410-S437 |
| M6           | 11.55mm            | 6mm       | 2    | WE-100-A     | 8     | W520001-S438   |
| M6           | 14.2mm             | 6mm       | 2    | AM-2-MA      | 10    | ★ W520512-S306 |
| M6           | 14.2mm             | 6mm       | 2    | AM-2-MA      | 10    | W520512-S436   |
| M6           | 15mm               | 6.5mm     | 2    | AM-2-M       | 9     | N808585-S309   |
| M6           | 18mm               | 5mm       | 2    | AM-2-AA      | Nylon | W708104-S300   |
| M6           | 27.71mm            | 10.5mm    | 2    | AM-2-B       | 9.8   | N710919-S441   |
| M8           | —                  | —         |      | AM-13-YA     | 8     | W708312-S309   |
| M8           | —                  | —         | 2    | AM-13-Y      | 2     | E620013-S72    |
| M8           | 13mm               | 6.5mm     | 2    | AM-13-Z      | 8     | N620013-S2     |
| M8           | 15.01mm            | 8mm       | 2    | WE-100-B     | 8     | W520002-S309   |
| M10          | 17mm               | 6mm       | 2    | AM-12-KA     |       | E820012-S72    |

Δ Serrated

(continued)

**PH-106      NUT — HEXAGON (Cont'd)**

| Metric Coarse Thread (Cont'd) |                    |           |      |              |         |               |
|-------------------------------|--------------------|-----------|------|--------------|---------|---------------|
| NOMINAL SIZE                  | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C     | PART NUMBER   |
| M14                           | 21mm               | 7.82mm    | 2    | AM-13-AJ     | 6       | E820011-S72   |
| M14                           | 21mm               | 8mm       | 2    | AM-13-GG     | 9       | N800287-S     |
| M14                           | 21.0mm             | 11mm      | 2    | AM-152-U     | —       | W709537-S309  |
| M14                           | 21mm               | 15.9mm    | 2    | AM-13-GH     | 10      | W708634-S440  |
| M14                           | 26.4mm             | 15.9mm    | 2    | AM-13-HH     | 10      | W710553-S440  |
| M16                           | 22mm               | 50mm      | 2    | AM-13-ZK     |         | W707013-S300  |
| M16                           | 24mm               | 16mm      | 2    | AM-13-ZA     | 10      | W520517-S436  |
| M18                           | 25.4mm             | 7.5mm     | 2    | AM-13-J      | —       | W710357-S300  |
| M20                           | 30mm               | 8mm       | 2    | AM-13-T      |         | N802695-S150  |
| M14                           | 21mm               | 8mm       | 3    | AM-13-AC     | 8       | W703001-S309  |
| M14                           | 21mm               | 8mm       | 3    | AM-13-AC     | 8       | W703001-S437  |
| M14                           | 21mm               | 16.0mm    | 3    | AM-152-Z     |         |               |
| M14                           | 32mm               | 8.25mm    | 3    | AM-152-ZA    | —       | W707787-S301  |
| M16                           | —                  | 16mm      | 3    | AM-152       | Plastic | W706854-S440  |
| M5                            | 11.5mm             | 5.50mm    | 4    | AM-152-F     |         | W701539-S309  |
| M5                            | 11.5mm             | 5.50mm    | 4    | AM-152-F     | —       | ★W701539-S415 |
| M5                            | 11.8mm             | 6.2mm     | 4    | AM-152-Q     | 8       | W520100-S309  |
| M5                            | 11.8mm             | 6.2mm     | 4    | AM-2-K       | 8       | W520101-S309  |
| M5                            | 11.8mm             | 6.8mm     | 4    | 200-030      | 8       | W520200-S309  |
| M5                            | 14.3mm             | 6.6mm     | 4    | AM-152-V     | 9       | W808338-S36   |
| M5                            | 17.9mm             | 9.4mm     | 4    | AM-152-AA    | 8       | W520102-S300  |
| M5                            | 17.9mm             | 9.4mm     | 4    | AM-152-AA    | 8       | W520102-S309  |
| M5                            | 17.9mm             | 9.4mm     | 4    | AM-152-AA    | 8       | W520102-S424  |
| M5                            | 17.9mm             | 9.4mm     | 4    | AM-152-AA    | 8       | W520102-S426  |
| M5                            | 17.9mm             | 9.4mm     | 4    | AM-152-AA    | 8       | W520102-S440  |
| M5                            | 17.9mm             | 9.4mm     | 4    | AM-152-AA    | 8       | W520102-S441  |
| M5                            | 17.9mm             | 9.4mm     | 4    | 200-030      | 8       | W520102-S427  |
| M6                            | 11.0mm             | 6.5mm     | 4    | AM-152-R     | 9       | N621906-S36B  |
| M6                            | 11.0mm             | 6.5mm     | 4    | AM-152-RA    | 9       | N621906-S437  |
| M6                            | 11.55mm            | 6mm       | 4    | AM-13-CLL    | 8       | W520412-S301  |
| M6                            | 11.55mm            | 6mm       | 4    | AM-13-CK     | 8       | W520412-S309  |
| M6                            | 11.55mm            | 6mm       | 4    | AM-13-CJ     | 8       | W520412-S436  |
| M6                            | 14.3mm             | 8.8mm     | 4    | AM-13-CL     | 9       | N620480-S301  |
| M6                            | 14.3mm             | 8.8mm     | 4    | AM-152-D     | 8       | W701542-S309  |
| M6                            | 14.3mm             | 8.8mm     | 4    | AM-152-D     | 8       | W701542-S437  |
| M8                            |                    | 9.75mm    | 4    | 200-030      | 9       | N806423-S56   |
| M8                            | —                  | 9.75mm    | 4    | AM-152-W     | 9       | N806423-S58   |
| M8                            | —                  | 9.75mm    | 4    | AM-152-W     |         | N806423-S424  |
| M8                            | —                  | 9.75mm    | 4    | AM-152-W     | 9       | ★N806423-S437 |
| M8                            | 13.0mm             | 7.8mm     | 4    | AM-152-S     | 9       | N621939-S301  |
| M8                            | 13.0mm             | 11.5mm    | 4    | AM-13-AZ     | 9       | W700050-S309  |
| M8                            | 16.0mm             | 18.0mm    | 4    | AM-13-CD     | 1       | W700525-S309  |
| M8                            | 17.6mm             | 8.3mm     | 4    | AM-152-L     | 9       | N804178-S309  |
| M8                            | 17.6mm             | 8.3mm     | 4    | AM-152-H     | 8       | W701582-S309  |
| M8                            | 17.6mm             | 10.3mm    | 4    | 200-030      | 9       | N620481-S309  |
| M8                            | 17.9mm             | 8.0mm     | 4    | AM-152-G     |         | W700010-S309  |
| M8                            | 17.9mm             | 8.0mm     | 4    | AM-152-G     |         | W700010-S309  |
| M8                            | 17.9mm             | 9.4mm     | 4    | AM-152-M     | 8       | W702586-S301  |
| M8                            | 17.9mm             | 11.5mm    | 4    | AM-152-P     | 8       | W700050-S309  |
| M10                           | —                  | 12.75     | 4    | AM-13-CH     |         | N620482-S427  |
| M10                           | 10.7mm             |           | 4    | 200-030      | 9       | N802068-S60   |
| M10                           | 1.50mm             | —         | 4    | AM-13-CC     | —       | N621942-S2    |
| M10                           | 1.50mm             | —         | 4    | AM-13-CC     | —       | N621942-S427  |
| M10                           | 1.50mm             | —         | 4    | AM-13-CC     | —       | N621942-S438  |
| M10                           | 1.50mm             | —         | 4    | AM-13-CC     | —       | N621942-S439  |
| M10                           | 15mm               | 7.6mm     | 4    | AM-152-U     | —       | ★W706785-S301 |
| M10                           | 15mm               | 7.6mm     | 4    | AM-152-U     | —       | W706785-S309  |
| M10                           | 15mm               | 7.6mm     | 4    | AM-152-U     | —       | W706785-S437  |
| M10                           | 15mm               | 10mm      | 4    | AM-152-R     | 8       | W703662-S309  |
| M10                           | 15mm               | 12mm      | 4    | AM-152-T     | 8       | W705831-S309  |
| M10                           | 15.51mm            | 12.0mm    | 4    | AM-152-RB    | —       | W701267-S439  |

(continued)

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## PH-106 NUT — HEXAGON (Cont'd)

### Metric Coarse Thread (Cont'd)

| NOMINAL SIZE | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C | PART NUMBER     |
|--------------|--------------------|-----------|------|--------------|-----|-----------------|
| M10          | 21.5mm             | 12.75mm   | 4    | AM-13-CP     | 9   | N620482-S36     |
| M10          | 21.5mm             | 12.75mm   | 4    | AM-13-CP     | 9   | N620482-S56     |
| M10          | 21.5mm             | 12.75mm   | 4    | AM-13-CP     | 9   | N620482-S301    |
| M10          | 21.5mm             | 12.75mm   | 4    | AM-13-CP     | 9   | N620482-S309    |
| M10          | 21.5mm             | 14.0mm    | 4    | AM-13-CJ     | 9   | N620482-S424    |
| M10          | 21.8mm             | 11.4mm    | 4    | 200-030      | 8   | W520103-S309    |
| M10          | 21.8mm             | 13.3mm    | 4    | AM-13-AK     | 10  | W520103-S309    |
| M10          | 21.8mm             | 13.3mm    | 4    | AM-13-AK     | 10  | W520103-S424    |
| M10          | 21.8mm             | 13.3mm    | 4    | AM-13-AK     | 10  | W520103-S440    |
| M10          | 21.8mm             | 13.3mm    | 4    | 200-030      | 10  | W520213-S427    |
| M10          | 21.8mm             | 13.3mm    | 4    | AM-13-AK     | 10  | ★ W520213-S437  |
| M10          | 21.8mm             | 13.5mm    | 4    | AM-13-AA     | 8   | W520203-S301    |
| M10          | 22.0mm             | 15mm      | 4    | AM-152-K     | 8   | W702480-S309    |
| M10          | 23mm               | 11.5mm    | 4    | AM-152-L     |     | N807164-S426    |
| M10          | 25.6mm             | 16.8mm    | 4    | 200-030      | 9   | N807716-S       |
| M10          | 38.1mm             | —         | 4    | AM-152-N     | —   | N800419-S301    |
| M12          | 1.75mm             |           | 4    | AM-152-J     |     | N802074-S2      |
| M12          | 19mm               | 13.5mm    | 4    | 200-030      | 8   | W704792-S427    |
| M12          | 20.03mm            | 12mm      | 4    | AM-13-AR     | —   | W700210-S437    |
| M12          | 20.03mm            | 12mm      | 4    | AM-13-AR     | —   | W700210-S3091   |
| M12          | 20.78mm            |           | 4    | AM-13-AM     | 9   | N808442-S100    |
| M12          | 25mm               | 16.1mm    | 4    | AM-13-AN     | 8   | ★ W700212-S3091 |
| M12          | 26mm               | 16.1mm    | 4    | 200-030      | 8   | W520204-S309    |
| M12          | 26mm               | 16.1mm    | 4    | AM-13-UF     |     | W703016-S306    |
| M12          | 26mm               | 16.1mm    | 4    | AM-13-AP     | 8   | W703217-S309    |
| M12          | 31.0mm             | 15.0mm    | 4    | AM-13-UB     | 10  | W705605-S301    |
| M12          | 31.0mm             | 15.0mm    | 4    | AM-13-UA     | 10  | W705605-S1301   |
| M12          | 32.5mm             | 15.0mm    | 4    | AM-13-UC     | 10  | W710807-S440    |
| M12          | 44.05mm            | —         | 4    | AM-13-CE     |     | N620483-S60     |
| M12          | 44.05mm            |           | 4    | AM-13-CI     |     | N620483-S301    |
| M14          | 29.5mm             | 15mm      | 4    | 200-030      | 10  | W705518-S427    |
| M14          | 29.9mm             | 15.9mm    | 4    | 200-030      | 10  | W708634-S427    |
| M14          | 29.9mm             | 18.2mm    | 4    | 200-030      | 10  | W520215-S427    |
| M16          | —                  | 14.5mm    | 4    | 200-030      | 10  | N800236-S436    |
| M16          | 24mm               | 16mm      | 4    | 200-030      | 10  | N805477-S427    |
| M16          | 27.6mm             | 10.2mm    | 4    | AM-152-C     |     | N807805-S36B    |
| M22          | 40mm               | 16.51mm   | 4    | AM-13-CJ     | 8   | N811024-S100    |
| M24          | 36mm               | 24.0mm    | 4    | AM-13-CN     | 10  | W707772-S436    |
| M24          | 41.60mm            | 19.87mm   | 4    | AM-13-CF     | —   | N808405-S100    |

### Metric Fine Thread

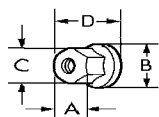
|           |      |       |   |         |   |                |
|-----------|------|-------|---|---------|---|----------------|
| M16 x 1   | 22mm | 5mm   | 1 | AM-14   | — | ★ E820009-S100 |
| M8 x 1    | 13mm | 6.5mm | 2 | AM-11-G | 8 | ★ E820109-S    |
| M14 x 1.5 | 22mm | 7mm   | 2 | AM-13-G |   | ★ E820112-S72  |

### Metric Special Thread

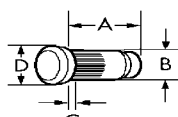
|           |        |        |   |          |   |               |
|-----------|--------|--------|---|----------|---|---------------|
| 1/2"-14■  | 30mm   | 6mm    | 2 | AM-12-G  | — | ★ E820046-S72 |
| 5/8"-18   | 23.8mm | 6.35mm | 2 | AM-12-GA |   | ★ E420005-S80 |
| 13/16"-20 | 32mm   | 13.2mm | 3 | AM-152-B |   | ★ E422021-S80 |

■ With Sealer

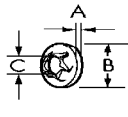
## PH-106(A) NUT — HEXAGON



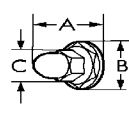
TYPE 1



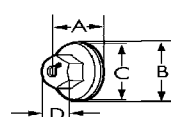
TYPE 2



TYPE 3



TYPE 4



TYPE 5

PH-106(A)  
12/01/2003

| NOMINAL SIZE | A       | B       | C       | D      | TYPE | P/C | LOCATOR CODE | PART NUMBER                            |
|--------------|---------|---------|---------|--------|------|-----|--------------|--|
| M5           | 8mm     | 11.8mm  | 9.24mm  | 6.2mm  | 1    | 8   | WE-110-A     | ★ W520100-S437                         |
| M5           | 8mm     | 11.8mm  | 9.24mm  | 7.1mm  | 1    | 8   | WE-200-A     | W520200-S309                           |
| M5           | 8mm     | 11.8mm  | 9.24mm  | 5mm    | 1    | 8   | WE-301-A     | W520411-S301                           |
| M5           | 8mm     | 11.8mm  | 9.24mm  | 5mm    | 1    | 8   | WE-301-A     | W520411-S421                           |
| M5           | 8mm     | 11.8mm  | 9.24mm  | 5mm    | 1    | 8   | WE-301-A     | W520411-S437                           |
| M5           | 8mm     | 11.8mm  | 11.5mm  | 6.2mm  | 1    | 10  | WE-111-G     | W520111-S426                           |
| M5           | 11.5mm  | 10mm    | —       | 6mm    | 1    | 8   | WE-111-E     | W707761-S309                           |
| M6           | 10mm    | 14mm    | 65mm    | —      | 1    | 8   | WE-302-A     | W700101-S301                           |
| M6           | 10mm    | 14mm    | 65mm    | —      | 1    | 8   | WE-302-B     | W700101-S309                           |
| M6           | 10mm    | 14mm    | 65mm    | —      | 1    | 8   | WE-302-A     | W700101-S438                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 7.3mm  | 1    | 8   | WE-110-B     | W520101-S300                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 7.3mm  | 1    | 8   | WE-110-B     | W520101-S427                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 7.3mm  | 1    | 8   | WE-110-B     | W520101-S436                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 7.3mm  | 1    | 8   | WE-110-B     | W520101-S437                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 7.3mm  | 1    | 8   | WE-110-B     | W520101-S440                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 7.3mm  | 1    | 10  | WE-111-A     | W520111-S301                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 7.3mm  | 1    | 10  | WE-111-A     | W520111-S309                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 7.3mm  | 1    | 10  | WE-111-A     | W520111-S437                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 9.1mm  | 1    | 8   | WE-200-B     | W520101-S309                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 9.1mm  | 1    | 8   | WE-200-B     | W520101-S427                           |
| M6           | 10mm    | 14.2mm  | 11.55mm | 9.1mm  | 1    | 10  | WE-205-D     | W520211-S424                           |
| M6           | 10mm    | 14.3mm  | —       | 8.8mm  | 1    | 9   | WE-111-G     | N620480-S2A                            |
| M6           | 10mm    | 14.3mm  | —       | 8.8mm  | 1    | 9   | WE-111-G     | N620480-S306                           |
| M6           | 10mm    | 14.3mm  | —       | 8.8mm  | 1    | 9   | WE-111-G     | N620480-S424                           |
| M6           | 10mm    | 14.3mm  | —       | 8.8mm  | 1    | 9   | WE-111-G     | N620480-S436                           |
| M6           | 10mm    | 14.3mm  | —       | 8.8mm  | 1    | 9   | WE-111-G     | N620480-S437                           |
| M6           | 10mm    | 14.3mm  | —       | 8.8mm  | 1    | 9   | WE-111-G     | N620480-S438                           |
| M6           | 10mm    | 16.8mm  | 24.96mm | 8.25mm | 1    | 8   | WE-301-C     | W704723-S301                           |
| M6           | 10mm    | 16.8mm  | 24.96mm | 8.25mm | 1    | 8   | WE-301-C     | W704723-S309                           |
| M6           | 10mm    | 16.8mm  | 24.96mm | 8.25mm | 1    | 8   | WE-301-C     | W704723-S424                           |
| M6           | 11mm    | 39.5mm  | —       | 15.8mm | 1    | 4   | AM-13-CZ     | W708206-S900<br>Includes rubber sealer |
| M6           | 11.55mm | 16.00mm | 10.0mm  | 7.20mm | 1    | 8   | AM-11-AE     | W707142-S301                           |
| M6           | 11.55mm | 16.00mm | 10.0mm  | 7.20mm | 1    | 8   | AM-11-AE     | W707142-S435                           |
| M6           | 11.55mm | 16.00mm | 10.0mm  | 7.20mm | 1    | 8   | AM-11-AE     | W707142-S438                           |
| M8           | 12.70mm | 22.64mm | 12.70mm | 18mm   | 1    | —   | AM-11-AC     | W708513-S309                           |
| M8           | 13mm    | 14.51mm | 17.6mm  | 7.6mm  | 1    | —   | WE-410-A     | W705448-S441                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 11.1mm | 1    | 8   | WE-200-C     | W520202-S309                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 11.1mm | 1    | 8   | WE-200-C     | W520202-S437                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 11.1mm | 1    | 10  | WE-205-E     | W520212-S440                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 11.1mm | 1    | 8   | WE-301-B     | W520413-S309                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 11.1mm | 1    | 8   | WE-301-B     | W520413-S427                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 8mm    | 1    | 8   | WE-301-B     | W520413-S440                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 8mm    | 1    | 8   | WE-301-B     | W520413-S441                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 8mm    | 1    | 10  | WE-306-B     | W520513-S300                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 8mm    | 1    | 10  | WE-306-C     | W520513-S301                           |
| M8           | 13.05mm | 17.5mm  | 15.01mm | 8.6mm  | 1    | —   | AM-11-AA     | W701706-S301                           |
| M8           | 13.05mm | 17.5mm  | 15.01mm | 8.6mm  | 1    | —   | AM-11-AB     | W701706-S430                           |
| M8           | 13mm    | 14.51mm | 17.6mm  | 7.6mm  | 1    | —   | WE-410-A     | W705448-S301                           |
| M8           | 13mm    | 17.9mm  | 15.01mm | 8mm    | 1    | 8   | WE-301-B     | W520413-S427                           |
| M8           | 15mm    | 26mm    | 11mm    | 19.5mm | 1    | 8   | AW-29-PA     | W702058-S421                           |

## PH-106(A) NUT — HEXAGON (Cont'd)

| NOMINAL SIZE | A       | B       | C       | D       | TYPE | P/C | LOCATOR CODE | PART NUMBER                                     |
|--------------|---------|---------|---------|---------|------|-----|--------------|---|
| M10          | 14.0mm  | —       | 15.5mm  | 10.0mm  | 1    | 10  | WE-111-F     | ★W708990-S309                                   |
| M10          | 14.0mm  | —       | 15.5mm  | 10.0mm  | 1    | 10  | WE-111-F     | W708990-S427                                    |
| M10          | 15mm    | 18mm    | —       | 10mm    | 1    | 10  | AM-152-TA    | W708176-S309                                    |
| M10          | 15mm    | 21.8mm  | 17.32mm | 10mm    | 1    | 10  | AZ-33-JN     | W520414-S301                                    |
| M10          | 15mm    | 21.8mm  | 17.32mm | 10mm    | 1    | 10  | AZ-33-JN     | W520414-S437                                    |
| M10          | 15mm    | 21.8mm  | 17.32mm | 10mm    | 1    | 10  | WE-306-A     | W520514-S309                                    |
| M10          | 15mm    | 21.8mm  | 17.32mm | 10mm    | 1    | 10  | WE-306-A     | W520514-S424                                    |
| M10          | 15mm    | 21.8mm  | 17.32mm | 10mm    | 1    | 10  | WE-306-A     | W520514-S440                                    |
| M10          | 15mm    | 21.8mm  | 17.32mm | 11.4mm  | 1    | 8   | WE-110-D     | W520103-S403                                    |
| M10          | 15mm    | 21.8mm  | 17.32mm | 11.4mm  | 1    | 8   | WE-110-E     | W520103-S437                                    |
| M10          | 15mm    | 21.8mm  | 17.32mm | 9.0mm   | 1    | —   | WE-112-B     | W707731-S430                                    |
| M10          | 15mm    | 24.7mm  | 17.32mm | 16.0mm  | 1    | 8   | WE-301-G     | W710213-S440                                    |
| M10          | 15mm    | 41.0mm  | 17.32mm | 5.0mm   | 1    | 10  | WE-112-A     | W708109-S309                                    |
| M10          | 17.3mm  | 41.5mm  | 15.0mm  | 14.2mm  | 1    | 9   | WE-111-M     | N811843-S426                                    |
| M12          | 18mm    | 22.15mm | 20.78mm | 14.7mm  | 1    | 10  | AM-13-ZA     | W707081-S900<br>Nylon patch<br>plastic shank    |
| M12          | 18mm    | 26mm    | 20.78mm | 12mm    | 1    | 8   | WE-306-E     | W520514-S440M                                   |
| M12          | 18mm    | 26mm    | 20.78mm | 12mm    | 1    | 8   | WE-301-E     | W520415-S301                                    |
| M12          | 18mm    | 26mm    | 20.78mm | 12mm    | 1    | 8   | WE-301-E     | W520415-S309                                    |
| M12          | 18mm    | 26mm    | 20.78mm | 12mm    | 1    | 8   | WE-301-E     | W520415-S414                                    |
| M12          | 18mm    | 26mm    | 20.78mm | 12mm    | 1    | 10  | WE-306-D     | W520515-S421                                    |
| M12          | 18mm    | 26mm    | 20.78mm | 12mm    | 1    | 10  | WE-306-D     | W520515-S440                                    |
| M12          | 18mm    | 26mm    | 20.78mm | 12mm    | 1    | 8   | WE-306-D     | W520515-S441                                    |
| M12          | 18mm    | 26mm    | 20.78mm | 16.1mm  | 1    | 8   | WE-200-D     | W520204-S309                                    |
| M12          | 18mm    | 26mm    | 20.83mm | 16.1mm  | 1    | 10  | WE-111-B     | W705606-S309                                    |
| M12          | 18mm    | 26mm    | 20.83mm | 16.1mm  | 1    | 10  | WE-111-B     | W705606-S440                                    |
| M12          | 18.0mm  | 30.1mm  | 20.78mm | 16.1mm  | 1    | 10  | WE-111-C     | W707246-S427                                    |
| M12          | 18.0mm  | 30.1mm  | 20.78mm | 16.1mm  | 1    | 10  | WE-111-C     | W707246-S440                                    |
| M14          | 21mm    | 29.9mm  | 24.25mm | 18.2mm  | 1    | 8   | WE-200-E     | W520205-S309                                    |
| M14          | 21mm    | 29.9mm  | 24.25mm | 14mm    | 1    | 10  | WE-306-E     | W520516-S301                                    |
| M14          | 21.0mm  | 31.2mm  | 24.25mm | 18.2mm  | 1    | 10  | WE-111-D     | W707243-S427                                    |
| M14          | 21.0mm  | 32.5mm  | 24.25mm | 18.2mm  | 1    | 10  | WE-111-J     | N805965-S427                                    |
| M16          | 24mm    | 34.5mm  | 27.71mm | 20.3mm  | 1    | 10  | WE-205-A     | W520216-S426                                    |
| M16          | 24mm    | 34.5mm  | 27.71mm | 20.3mm  | 1    | 10  | WE-205-A     | W520216-S427                                    |
| M16          | 24mm    | 34.5mm  | 27.71mm | 20.3mm  | 1    | 10  | WE-205-A     | W520216-S440                                    |
| M16          | 24mm    | 35.4mm  | 27.71mm | 18.3mm  | 1    | —   | WE-111-M     | W520116-S436                                    |
| M18          | 27.0mm  | 31.2mm  | 34.0mm  | 22.6mm  | 1    | 10  | WE-301-D     | W708988-S427                                    |
| M6           | 15mm    | 9.91mm  | 1.65mm  | 12.95mm | 2    | —   | WE-400-A     | W708277-S309<br>Blind anchor<br>includes foam   |
| M6           | 15.75mm | 13.0mm  | 2.15mm  | 13.34mm | 2    | —   | WE-400-B     | W704987-S309<br>Blind anchor<br>includes sealer |
| M3.2         | 1.32mm  | 9.52mm  | 5.92mm  | —       | 3    | —   | WE-402-A     | W708203-S309M                                   |
| M6           | —       | 17.0mm  | —       | —       | 3    | —   | WE-402-B     | N801192-S32                                     |
| M8           | 2.25mm  | 21.25mm | 7.65mm  | —       | 3    | —   | WE-401-A     | N807789-S2                                      |
| M8           | 8mm     | 20mm    | 13mm    | —       | 3    | 8   | WE-402-C     | W707144-S301                                    |
| M8           | 8mm     | 20mm    | 13mm    | —       | 3    | 8   | WE-402-C     | W707144-S438                                    |
| M8           | 8mm     | 20mm    | 13mm    | —       | 3    | 8   | WE-402-C     | W707144-S441                                    |
| M14          | 3.68mm  | 25.25mm | 12.95mm | —       | 3    | —   | WE-402-F     | W710335-S441                                    |
| M4           | 17.9mm  | 17.9mm  | 11.55mm | —       | 4    | —   | WE-420-A     | N620366-S36B                                    |
| M5           | 7.6mm   | 19.00mm | 16.66mm | 10.00mm | 5    | —   | WE-430-A     | W709641-S301                                    |
| M6           | 7.75mm  | 24.00mm | —       | 12.70mm | 5    | —   | WE-430-B     | W710012-S430                                    |

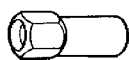


# Standard and Utility Parts Catalog

## PH-110 NUT — HEXAGON — SPECIAL



TYPE 1



TYPE 2



TYPE 3



TYPE 4



TYPE 5



TYPE 6



TYPE 7



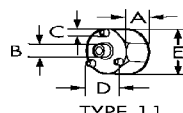
TYPE 8



TYPE 9



TYPE 10



TYPE 11

PH-110  
12/01/2003

### National Fine Thread

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|------|--------------|-------|-------------|
| 5/8"     | 11     | 1-1/8"             | 5/8"      | 4    | MM-130-KC    | 5     | 388833-S2   |

### Special Thread

|        |    |        |        |   |           |   |               |
|--------|----|--------|--------|---|-----------|---|---------------|
| 3/8"   | 32 | 9/16"  | 1/16"  | 4 | MM-130-KA | — | ★ E426040-S72 |
| 7/16"  | 20 | 21/32" | 15mm   | 4 | MM-130-KE | 1 | ★ E426219-S80 |
| 7/16"  | 24 | 9/16"  | 3/4"   | 5 | MM-130-N  | — | ★ 384180-S0   |
| 17/32" | 24 | 5/8"   | 1-1/8" | 5 | MM-130-NA | — | ★ 384181-S0   |
| 11/16" | 20 | 13/16" | 1-1/4" | 5 | MM-130-NB | — | ★ 384182-S0   |

### Metric Fine Thread

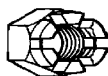
| NOMINAL SIZE | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C | PART NUMBER     |
|--------------|--------------------|-----------|------|--------------|-----|-----------------|
| M8           | 14.75mm            | 6.35mm    | 1    | AM-34-A      |     | N805403-S100    |
| M18 x 1.5    | 19mm               | 20mm      | 1    | AM-34        | 8   | ★ N855074-S51   |
| M6 x 1.5     | 22mm               | 33.3mm    | 2    | AM-130       | —   | ★ E804814-S82   |
| M6 x 1.0     | 10mm               | 12mm      | 2    | AM-25-B      | —   | ★ N804084-S2    |
| M5           | 20.0mm             | 8.2mm     | 2    | AM-25-H      | 6.6 | W700505-S300    |
| M10          | 17mm               | 45mm      | 3    | AM-130-KA    |     | ★ E826407-S72   |
| M12 x 1.25   | 17mm               | 16mm      | 4    | AM-25        | 8   | ★ E820040-S72   |
| M20 x 1.5    | 30mm               | 19mm      | 4    | AM-25-G      | 8   | ★ N801714-S100  |
| M6           | 13.34mm            | 15.75mm   | 5    | AM-25-J      | —   | N808182-S100    |
| M10          | 24.5mm             | 17.1mm    | 6    | AM-33-L      |     | N808222-S190    |
| M6           | 14.25mm            | 10.50mm   | 6    | AM-33-LA     | 8   | W707937-S900    |
| M6           | 18.0mm             | 9.4mm     | 6    | AM-33-K      |     | W701144-S300    |
| M5           | 15mm               | 52.3mm    | 7    | AM-33-C      | 6   | ★ N800488-S     |
| M5           | 15mm               | 52.3mm    | 7    | AM-33-C      | 6   | N800488-S301    |
| M6           | 95mm               | 15mm      | 7    | AM-33-KK     |     | W706561-S309    |
| M6           | 95mm               | 15mm      | 7    | AM-33-KK     | —   | W706561-S437    |
| M8           | 24.1mm             | 8.2mm     | 7    | AM-33-R      |     | ★ N801970-S301  |
| M12          | 19mm               | 14mm      | 7    | AM-33-A      | 8   | ★ E826155-S     |
| M16 x 1.5    | 24mm               | 16mm      | 7    | AM-33        | 10  | ★ E822120-S72   |
| M5           | 13.97mm            | 5.97mm    | 8    | AM-33-P      | 9   | N807667-S101    |
| M6           | 10.88mm            | 6.35mm    | 8    | AM-33-JZ     | 9   | ★ W621905-S301  |
| M6           | 19.0mm             | 7.2mm     | 8    | AM-33-N      | 8   | ★ W701694-S309  |
| M10          | 1.5mm              |           | 8    | AM-33-JN     | 8   | ★ W5201414-S301 |
| M10          | 1.5mm              |           | 8    | AM-33-ZY     |     | N802068-S424    |
| M10          | 1.5mm              | 11.4mm    | 8    | AM-33-ZZ     |     | W707654-S435    |
| M10          | 1.5mm              | 11.4mm    | 8    | AM-33-ZZ     | —   | W707654-S441    |
| M10          | 16mm               | 9.5mm     | 8    | AM-33-JM     |     | N808737-S427    |
| M10          | 16mm               | 12mm      | 8    | AM-33-JJ     |     | W707194-S900    |
| M10 x 1.5    | 25.4mm             | —         | 8    | AM-33-D      | 8   | ★ N807939-S36B  |
| M10 x 1.5    | 25.4mm             | —         | 8    | AM-33-D      | 8   | N807939-S424    |
| M10 x 1.5    | 25.4mm             | —         | 8    | AM-33-D      | 8   | N807939-S437    |
| M12          | 18mm               | 14mm      | 8    | AM-33-JQ     |     | W707629-S301    |
| M12          | 20.78mm            | 13.8mm    | 8    | AM-33-CC     | 10  | W520114-S427    |
| M12          | 20.78mm            | 13.8mm    | 8    | AM-33-CD     | 10  | W520114-S426    |
| M12          | 20.78mm            | 13.8mm    | 8    | AM-33-CD     | 10  | W520114-S440    |
| M12          | 20.78mm            | 13.8mm    | 8    | AM-33-CD     | 10  | W520114-S441    |
| M12          | 26mm               | 16.1mm    | 8    | AM-33-F      | 10  | W520214-S60     |
| M12          | 26mm               | 16.1mm    | 8    | AM-33-F      | 10  | W520214-S301    |

## PH-110 NUT — HEXAGON — SPECIAL (Cont'd)

| Metric Fine Thread (Cont'd) |                    |           |      |              |     |               |
|-----------------------------|--------------------|-----------|------|--------------|-----|---------------|
| NOMINAL SIZE                | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C | PART NUMBER   |
| M12                         | 26mm               | 16.1mm    | 8    | AM-33-F      | 10  | W520214-S427  |
| M12                         | 26mm               | 16.1mm    | 8    | AM-33-F      | 10  | W520214-S436  |
| M12                         | 26mm               | 16.1mm    | 8    | AM-33-F      | 10  | W520214-S440  |
| M12                         | 26mm               | 17.5mm    | 8    | AM-33-E      | 6   | W700894-S309  |
| M12                         | 32.5mm             | 15.0mm    | 8    | AM-33-M      | 9   | ★N804525-S60  |
| M12 x 1.75                  | 19mm               | 11mm      | 8    | AM-33-B      | 9   | N806228-S100  |
| M14                         | —                  | 15.7mm    | 8    | AM-36-C      | —   | N620484-S55   |
| M14                         | —                  | 15.7mm    | 8    | AM-36-C      | —   | N620484-S56   |
| M14                         | —                  | 15.7mm    | 8    | AM-36-C      | —   | N620484-S427  |
| M14                         | 29.9mm             | 18.2mm    | 8    | AM-35        | 10  | W520215-S301  |
| M14                         | 29.9mm             | 18.2mm    | 8    | AM-35        | 10  | ★W520215-S429 |
| M14                         | 29.9mm             | 18.2mm    | 8    | AM-35        | 10  | W520215-S436  |
| M14                         | 29.9mm             | 18.2mm    | 8    | AM-35        | 10  | W520215-S440  |
| M16                         | 34.6mm             | 16mm      | 8    | AM-36        | 10  | W520517-S301  |
| M16                         | 34.6mm             | 16mm      | 8    | AM-36        | 10  | ★W520517-S428 |
| M14 x 2                     | 21mm               | 17mm      | 9    | AM-34        | 6   | ★N805476-S160 |
| M5                          | 6.97mm             | 20mm      | 10   | AM-36-U      |     | W700971-S309  |

| NOMINAL SIZE | A      | B       | C     | D      | E      | TYPE | P/C | LOCATOR CODE | PART NUMBER  |
|--------------|--------|---------|-------|--------|--------|------|-----|--------------|--------------|
| M6           | 4.90mm | 6.75mm  | 3.2mm | 13.1mm | 16.3mm | 11   | 8   | WE-500-A     | W520702-S100 |
| M8           | 6.44mm | 8.75mm  | 4.3mm | 17.7mm | 22mm   | 11   | 8   | WE-500-B     | W520703-S100 |
| M10          | 8.04mm | 10.80mm | 4.3mm | 19.7mm | 24mm   | 11   | 8   | WE-500       | W520704-S    |
| M10          | 8.04mm | 10.80mm | 4.3mm | 19.7mm | 24mm   | 11   | 8   | WE-500       | W520704-S100 |

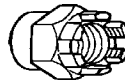
## PH-107 NUT — HEXAGON — CASTLE and SLOTTED



TYPE 1



TYPE 2



TYPE 3



TYPE 4

PH107

| National Coarse Thread |        |                    |           |      |              |       |              |
|------------------------|--------|--------------------|-----------|------|--------------|-------|--------------|
| DIAMETER               | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
| 3/4"                   | 10     | 1-1/8"             | 13/16"    | 1    | MM-67-D      | 2     | ★379817-S7-8 |
| 5/8"                   | 11     | 15/16"             | 23/32"    | 2    | MM-69        | 8     | ★385511-S2   |
| 7/8"                   | 9      | 1-1/4"             | 3/4"      | 2    | MM-67-K      | 2     | ★382497-S    |

| National Fine Thread |        |                    |           |      |              |       |              |
|----------------------|--------|--------------------|-----------|------|--------------|-------|--------------|
| DIAMETER             | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
| 9/16"                | 18     | 7/8"               | 5/8"      | 1    | MM-59-W      | 5     | ★382826-S100 |
| 9/16"                | 18     | 15/16"             | 23/32"    | 1    | MM-60        | 5     | ★350894-S    |
| 5/8"                 | 18     | 15/16"             | 23/32"    | 1    | MM-61-A      | 5     | ★381612-S36  |
| 5/8"                 | 18     | 15/16"             | 23/32"    | 1    | MM-61-B      | 5     | 383436-S100  |
| 5/8"                 | 18     | 15/16"             | 23/32"    | 1    | MM-61-G      | 5     | ★383436-S101 |
| 3/4"                 | 16     | 1-1/16"            | 37/64"    | 1    | MM-64        | 2     | ★354573-S    |
| 3/4"                 | 16     | 1-1/8"             | 13/16"    | 1    | MM-62        | 5     | ★351125-S    |
| 5/8"                 | 18     | 1-1/8"             | 7/8"      | 1    | MM-67-L      | 1     | 391238-S100  |
| 3/8"                 | 24     | 9/16"              | 13/32"    | 2    | MM-65-E      | 8     | ★384487-S2   |
| 7/16"                | 20     | 11/16"             | 3/8"      | 2    | MM-65-H      | 8     | ★383031-S    |
| 7/16"                | 20     | 11/16"             | 29/64"    | 2    | MM-36        | 8     | ★372360-S    |
| 7/16"                | 20     | 11/16"             | 19/32"    | 2    | MM-65-J      | 5     | ★383780-S2   |
| 1/2"                 | 20     | 3/4"               | 9/16"     | 2    | MM-66-C      | 8     | ★389594-S2   |
| 1/2"                 | 20     | 3/4"               | 7/16"     | 2    | MM-66-A      | 5     | ★385002-S100 |
| 1/2"                 | 20     | 3/4"               | 7/16"     | 2    | MM-66-B      | 5     | ★383039-S    |
| 1/2"                 | 20     | 3/4"               | 9/16"     | 2    | MM-67        | 5     | ★370116-S8   |

(continued)

# Standard and Utility Parts Catalog

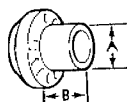
## PH-107 NUT — HEXAGON — CASTLE and SLOTTED (Cont'd)

| National Fine Thread (Cont'd) |        |                    |           |      |              |       |              |
|-------------------------------|--------|--------------------|-----------|------|--------------|-------|--------------|
| DIAMETER                      | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
| 1/2"                          | 20     | 3/4"               | 11/16"    | 2    | MM-67-C      | 8     | ★385095-S2   |
| 9/16"                         | 18     | 7/8"               | 1/2"      | 2    | MM-68-K      | 5     | ★383992-S2   |
| 9/16"                         | 18     | 7/8"               | 5/8"      | 2    | MM-68        | 8     | ★370117-S8   |
| 5/8"                          | 18     | 15/16"             | 3/8"      | 2    | MM-71        | 2     | ★359553-S8   |
| 5/8"                          | 18     | 1-1/16"            | 5/8"      | 2    | MM-72        | 2     | ★351171-S    |
| 3/4"                          | 16     | 1-1/8"             | 3/4"      | 2    | MM-76-C      | 8     | ★386750-S2   |
| 3/4"                          | 16     | 1-1/8"             | 5/8"      | 2    | MM-76-AB     | 5     | 383218-S100  |
| 3/4"                          | 16     | 1-1/8"             | 5/8"      | 2    | MM-76-AC     | 8     | 390431-S2    |
| 3/4"                          | 16     | 1-1/8"             | 7/8"      | 2    | MM-76-AA     | 5     | 383489-S100  |
| 7/8"                          | 14     | 1-1/4"             | 13/16"    | 2    | MM-77-F      | 5     | 383251-S100  |
| 7/8"                          | 14     | 1-5/16"            | 53/64"    | 2    | MM-77-A      | 5     | ★383251-S2   |
| 1"                            | 14     | 1-7/16"            | 5/8"      | 2    | MM-82        | 2     | 351163-S     |
| 1"                            | 14     | 1-7/16"            | 5/8"      | 2    | MM-82-A      | 5     | 389846-S2    |
| 1"                            | 14     | 1-1/2"             | 1-9/64"   | 2    | MM-83-A      | 5     | 383219-S2    |
| 1"                            | 14     | 1-1/2"             | 1-5/32"   | 2    | MM-82-B      | 5     | ★383219-S    |
| 1-1/8"                        | 12     | 21/32"             | 1-3/16"   | 2    | MM-89-E      | 5     | 383252-S2    |
| 1-1/8"                        | 12     | 1-13/16"           | 1-1/8"    | 2    | MM-89        | 5     | ★354281-S    |
| 1-1/4"                        | 12     | 1-3/4"             | 5/8"      | 2    | MM-91        | 8     | ★351161-S7   |
| 7/8"                          | 14     | 1-1/4"             | 13/16"    | 3    | MM-98        | 2     | ★351152-S    |
| 1"                            | 14     | 1-7/16"            | 29/32"    | 3    | MM-100       | 5     | ★351164-S    |
| 1/2"                          | 20     | 7/8"               | 7/16"     | 4    | MM-100-A     | —     | 385002-S60   |
| 9/16"                         | 18     | 1-1/4"             | 7/16"     | 4    | MM-101-EA    | 5     | ★390924-S100 |

| Special Thread |        |                    |           |      |              |       |             |
|----------------|--------|--------------------|-----------|------|--------------|-------|-------------|
| DIAMETER       | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
| 1-1/8"         | 18     | 1-21/32"           | 13/16"    | 1    | MM-90-C      | 5     | ★383337-S   |
| 7/8"           | 20     | 1-1/4"             | 1/2"      | 2    | MM-79        | 2     | ★351159-S   |
| 1"             | 20     | 1-1/2"             | 1/2"      | 2    | MM-85        | 8     | 351165-S8   |
| 1-1/8"         | 18     | 1-5/8"             | 1/2"      | 2    | MM-90        | 5     | ★357346-S   |
| 1-1/4"         | 18     | 1-1/4"             | 5/8"      | 2    | M-14-B       | 5     | ★386218-S   |
| 1-1/4"         | 18     | 2-1/8"             | 5/8"      | 2    | MM-94        | 5     | ★351830-S   |
| 1-1/2"         | 18     | 2-1/4"             | 5/8"      | 2    | MM-97        | 5     | ★371357-S   |
| 1-1/2"         | 18     | 2-3/8"             | 9/16"     | 2    | MM-96        | 5     | ★371319-S   |
| 7/8"           | 16     | 1-5/16"            | 9/16"     | 4    | MM-101       | 5     | ★356148-S   |
| 1-1/2"         | 12     | 56mm               | 38mm      | 4    | MM-101-A     | 5     | ★U350281-S2 |

| Metric       |                    |           |      |              |     |               |
|--------------|--------------------|-----------|------|--------------|-----|---------------|
| NOMINAL SIZE | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C | PART NUMBER   |
| M12          | 26mm               | 10.7mm    | 1    | AM-115-F     | 10  | ★N808086-S100 |
| M16          | 24mm               | 18.2mm    | 1    | AM-115-F     | 8   | ★N801825-S100 |
| M12          | 18mm               | 10.5mm    | 2    | AM-114       |     | N803972-S150  |
| M10          | 15mm               | 10mm      | 4    | AM-115-E     | 8   | ★N801273-S100 |

## PH-733 NUT — TUBULAR CLINCH



TYPE 1



TYPE 2

PH-733

| DIAMETER | THREAD | A      | B       | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|---------|------|--------------|-------|-------------|
| No. 8    | 32     | 25/64" | 13/64"  | 1    | MM-310       | 2     | ★374202-S39 |
| 7/16"    | 14     | 45/64" | 1-7/16" | 2    | MM-309       | 5     | ★389671-S2  |
| 7/16"    | 14     | 45/64" | 1"      | 2    | MM-308-Z     | 5     | ★389672-S8  |

## PH-734 NUT — INSERT



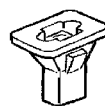
TYPE 1



TYPE 2



TYPE 3



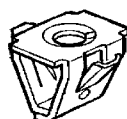
TYPE 4



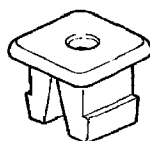
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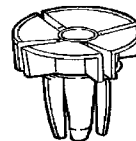
TYPE 6



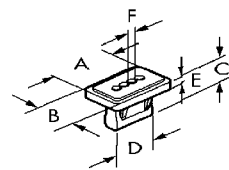
TYPE 7



TYPE 8



TYPE 9



TYPE 10

PH-734  
11/24/2004

| DIAMETER | THREAD | LENGTH  | TYPE | LOCATOR CODE | GRADE   | PART NUMBER  |
|----------|--------|---------|------|--------------|---------|--------------|
| 5/16"    | 18     | 19/32"  | 1    | MM-315       | 2       | ★384335-S    |
| 3/8"     | 16     | 15/32"  | 1    | MM-316       | 2       | ★384445-S    |
| 1/2      | 20     | 30.96mm | 1    | MM-317       | Nylon   | ★391599-S428 |
| No. 8    | 32     | 21/64"  | 2    | MM-316-A     |         | ★387827-S■   |
| 1/8      | —      | 5/8"    | 6    | MM-316-B     | Nylon   | 385701-S101  |
| 1/4      |        |         | 6    | AM-319-G     | Plastic | ★387089-S    |

### Metric

|        |    |         |   |           |               |               |
|--------|----|---------|---|-----------|---------------|---------------|
| 4.2mm  |    | 23.85mm | 1 | AM-319-V  | Steel/Plastic | ★W705120-S300 |
| 8mm    | 32 | 15.25mm | 1 | AM-317-A  | —             | 391411-S309   |
| M16    |    | 23.85mm | 1 | AM-317-V  | Nylon         | ★N806082-S160 |
| 7.3mm  |    | 19mm    | 3 | AM-317    | Nylon         | N804765-S     |
| 11.5mm | —  | 19mm    | 3 | AM-317-B  | Nylon         | W708580-S300  |
| 4.2mm  |    | 15mm    | 4 | AM-318-EB | Nylon         | N806817-S     |
| 4.2mm  |    | 27mm    | 4 | AM-318-EA | Nylon         | N805217-S     |
| 8.27mm |    | 27.25mm | 4 | AM-318-EC | Nylon         | 391530-S      |
| 4.9mm  |    | 18.0mm  | 5 | AM-319-K  | Plastic       | W700158-S300  |
| M8     |    | 33.5mm  | 5 | AM-319-E  | Nylon         | N805952-S     |
| M8     | —  | 11.3mm  | 6 | AM-319-R  | Nylon         | N806001-S427  |
| M8     | 10 | 8.58mm  | 6 | AM-319-T  | Nylon         | N808539-S     |
| 4.2mm  |    | 11.3mm  | 7 | AM-319-F  | Steel         | N807516-S410  |
| 4.2mm  | —  | 12.6mm  | 7 | AM-319-P  | Steel         | W700990-S403  |
| 4.2mm  |    | 24.7mm  | 7 | AM-319-L  | Nylon         | ★N807189-S100 |
| 4.2mm  |    | 8.25mm  | 8 | AM-319-Q  | Plastic       | W702087-S300  |
| 4.2mm  |    | 10.69mm | 8 | AM-319-X  | Plastic       | W700578-S300  |
| 4.2mm  |    | 12.7mm  | 8 | AM-319-U  | Steel         | N803685-S424  |
| 6.3mm  |    | 10.3mm  | 8 | AM-319-R  | Plastic       | W706570-S300  |
| 6.3mm  | —  | 14.66mm | 8 | AM-319-Y  | Nylon         | N805959-S100  |
| 7.5mm  |    | 11.2mm  | 8 | AM-319-W  | Nylon         | W704408-S300  |
| 7.6mm  |    | 16.0mm  | 8 | AM-319-Z  | Plastic       | W707126-S300  |
| 9.50mm |    | 8.64mm  | 8 | AM-319-H  | Nylon         | N801706-S     |
| M5     | —  | 20.0mm  | 8 | AM-319-U  | Nylon         | ★W701650-S    |
| 4.8mm  |    | 11.5mm  | 9 | AM-319-M  | Plastic       | W702438-S300  |
| 8mm    |    | 23.8mm  | 9 | AM-319-J  | Nylon         | N806363-S     |
| M8     |    | 54.8mm  | 9 | AM-319-S  | Nylon         | N806854-S     |

| A      | B      | C      | D      | E     | F     | TYPE | LOCATOR CODE | MATERIAL       | PART NUMBER  |
|--------|--------|--------|--------|-------|-------|------|--------------|----------------|--------------|
| 17.0mm | 14.0mm | 17.5mm | 6mm    | 1.8mm | 3.4mm | 10   | AM-318-D     | Neoprene       | W709485-S300 |
| 22.3mm | 13.0mm | 25.0mm | 15.0mm | .75mm | —     | 10   | AM-318-C     | Plastic        | W710190-S300 |
| 22.3mm | 15.6mm | 18.0mm | 16.5mm | 4.0mm | 3.1mm | 10   | AM-318-A     | Nylon/Neoprene | W711187-S300 |
| 23.5mm | 16.6mm | 18.0mm | 16.5mm | 2.0mm | 3.1mm | 10   | AM-318-ED    | Nylon          | W709949-S300 |
| 23.5mm | 16.6mm | 18.0mm | 16.5mm | 4.0mm | —     | 10   | AM-318-EE    | Nylon          | W705590-S300 |

■ Brass

# Standard and Utility Parts Catalog

## PH-77 NUT — KNURLED



PH77

| National Fine Thread |        |          |              |       |             |
|----------------------|--------|----------|--------------|-------|-------------|
| DIAMETER             | THREAD | MATERIAL | LOCATOR CODE | GRADE | PART NUMBER |
| 3/8"                 | 24     | Brass    | MM-132       |       | ★ 370290-S  |

## PH-207 NUT — LOCKING — FIBRE



PH207

| National Coarse Thread |        |                    |           |              |       |              |
|------------------------|--------|--------------------|-----------|--------------|-------|--------------|
| DIAMETER               | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER  |
| No. 5                  | 40     | 1/4"               | 9/64"     | MM-133       |       | ★ 377176-S40 |
| 5/16"                  | 18     | 1/2"               | 1/4"      | MM-134       |       | 379930-S2    |

## PH-734(A) NUT — PENTAGON



PH-734(A)

| DIAMETER | THREAD  | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER   |
|----------|---------|-----------|--------------|-------|---------------|
| No. 19   | 1/2"-16 | 10.3"     | MM-350-A     | 5     | W705582-S430  |
| 9/16"    | 12      | 35/64"    | MM-350       | 5     | ★ 387382-S100 |

## PH-108 NUT — TUBE — HEXAGON



TYPE 1



TYPE 2



TYPE 3



TYPE 4



TYPE 5



TYPE 6

PH-108

| TUBE SIZE | THREAD SIZE | A      | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER   |
|-----------|-------------|--------|--------|------|--------------|-------|---------------|
| 3/16"     | 3/8"-24     | 7/16"  | 19/64" | 1    | MM-102       | 2     | 382967-S100   |
| 3/16"     | 7/16"-24    | 7/16"  | 5/16"  | 1    | MM-103       | 5     | ★ 358609-S8   |
| 1/4"      | 7/16"-24    | 7/16"  | 39/64" | 1    | MM-104       | 2     | ★ 372503-S8   |
| 5/16"     | 1/2"-20     | 5/8"   | 13/32" | 1    | MM-104-A     | —     | ★ 390346-S36  |
| 3/8"      | 5/8"-18     | 5/8"   | 3/4"   | 1    | MM-104-E     |       | 390794-S56    |
| 3/16"     | 1/2"-20     | 1/2"   | 21/64" | 2    | MM-105-F     | 5     | 375096-S36    |
| 3/16"     | 7/16"-24    | 5/8"   | 9/16"  | 2    | MM-105-J     | 2     | 392005-S427   |
| 3/16"     | 9/16"-18    | 35/64" | 7/16"  | 2    | MM-105-H     | 2     | ★ 351736-S36  |
| 1/4"      | 7/16"-24    | 5/8"   | 25/64" | 2    | MM-106       | 2     | ★ 351095-S8   |
| 1/4"      | 1/2"-20     | 1/2"   | 13/32" | 2    | MM-108-D     | 2     | 372130-S36    |
| 23/64"    | 3/8"-16     | 1/2"   | 2"     | 2    | MM-105-G     | 2     | ★ 351735-S36  |
|           | 9/16"-20    | 9/16"  | 9/16"  | 3    | II-41-H      | 2     | ★ 385176-S36  |
| 3/16"     | 3/8"-24     | 3/8"   | 25/64" | 3    | MM-109       | —     | ★ 351112-S┘   |
| 5/16"     | 9/16"-20    | 9/16"  | 19/32" | 3    | MM-109-A     | 2     | ★ 389649-S36  |
| 5/8"      | 7/8"-18     | 1"     | 1/2"   | 3    | MM-109-M     | 2     | ★ 386252-S    |
| 3/16"     | 3/8"-24     | 7/16"  | 13/32" | 4    | MM-110       | —     | ★ 353286-S┘   |
| 1/4"      | 7/16"-20    | 1/2"   | 45/64" | 4    | MM-112-AF    | —     | ★ 390082-S101 |
| 1/4"      | 7/16"-24    | 1/2"   | 7/16"  | 4    | MM-111       | —     | ★ 357980-S┘   |
| 5/16"     | 1/2"-20     | 5/8"   | 23/32" | 4    | MM-113-AG    | 2     | ★ 388921-S100 |
| 5/16"     | 5/8"-18     | 13/16" | 21/32" | 4    | MM-320       | 2     | ★ 386423-S36  |
| 3/8"      | 9/16"-18    | 11/16" | 3/4"   | 4    | MM-113-AH    | 5     | ★ 388822-S100 |
| 1/2"      | 13/16"-18   | 15/16" | 43/64" | 4    | MM-113-CA    | —     | ★ 384775-S┘   |
| 5/8"      | 13/16"-18   |        |        | 4    | MM-113-CC    | —     | ★ 388668-S2┘  |

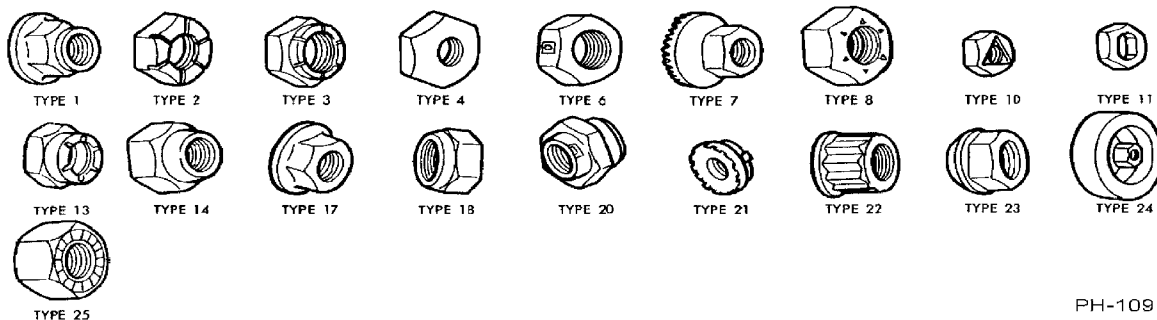
## PH-108 NUT — TUBE — HEXAGON (Cont'd)

| TUBE SIZE | THREAD SIZE | A      | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|-----------|-------------|--------|--------|------|--------------|-------|-------------|
| 5/8"      | 1"-18       | 1-1/8" | 7/8"   | 4    | MM-113-CB    | —     | ★384776-S□  |
| 1/4"      | 7/16"-24    | 9/16"  | 29/64" | 5    | MM-113-DD    | —     | ★386478-S□  |
| 3/8"      | 17/32"-24   | 5/8"   | 9/16"  | 5    | MM-113-DA    | —     | ★383805-S□  |
| 3/8"      | 17/32"-24   | 5/8"   | 9/16"  | 5    | MM-113-DE    | —     | ★386576-S□  |
| 1/2"      | 11/16"-20   | 13/16" | 21/32" | 5    | MM-113-DF    | —     | ★386577-S□  |
| 3/4"      | 1"-18       | 49/64" | 13/16" | 5    | MM-113-DC    | —     | ★383807-S□  |
| 3/4"      | 1"-18       | 49/64" | 13/16" | 5    | MM-113-DG    | —     | ★386578-S□  |
| 3/8"      | 9/16"-20    | 5/8"   |        | 6    | MM-113-F     | —     | ★384511-S□  |

### Metric

| TUBE  | THREAD SIZE | A    | B      | TYPE | LOCATOR CODE | P/C | PART NUMBER  |
|-------|-------------|------|--------|------|--------------|-----|--------------|
| M5    | M10 x 1     | 11mm | 12mm   | 1    | AM-70-H      | 9.8 | ★E855407-S72 |
| M10   | M10 x 1     | 11mm | 12.5mm | 1    | AM-38-A      |     | ★E855407-S71 |
| M16.3 | M22 x 1.5   | 24mm | 12mm   | 1    | AM-38        | 9.8 | ★E855091-S72 |
| M12   | M12 x 1     | 15mm | 6.6mm  | 3    | AM-109       |     | ★E855616-S71 |
| M4.7  | M10 x 1     | 25mm | 2mm    | 4    | AM-70-G      | 8   | ★E855037-S71 |

## PH-109 NUT — LOCKING



PH-109

### National Coarse Thread

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPES | LOCATOR CODE | GRADE | PART NUMBER  |
|----------|--------|--------------------|-----------|-------|--------------|-------|--------------|
| 7/8"     | 20     | 1-1/8"             | 13/16"    | 1     | MM-170-C     | 8     | ★390262-S100 |
| 3/4"     | 20     | 1-1/16"            | 13/16"    | 1     | MM-170-A     | 8     | 389546-S100  |
| 7/8"     | 14     | 1-1/8"             | 3/4"      | 1     | MM-170-AB    | 8     | 390313-S100  |
| 3/8"     | 16     | 9/16"              | 13/32"    | 3     | MM-170-B     | 5     | ★382834-S100 |
| 1/2"     | 13     | 3/4"               | 9/16"     | 3     | MM-170-E     | 8     | ★384801-S100 |
| 9/16"    | 12     | 7/8"               | 5/8"      | 3     | MM-170-FB    | 8     | ★385020-S101 |
| No. 8    | 32     | 11/32"             | 15/64"    | 3     | MM-170-BA    | 5     | 388747-S     |
| 7/16"    | 14     | 11/16"             | 3/8"      | 4     | MM-151       | 5     | ★371951-S8   |
| 3/4"     | 20     | 1"                 | 13/32"    | 6     | MM-151-A     | —     | ★389593-S2   |
| 1/4"     | 20     | 7/8"               | 9/32"     | 7     | MM-171       | 5     | ★371068-S2   |
| 7/16"    | 14     | 11/16"             | 7/16"     | 13    | MM-173-C     | 5     | ★384566-S100 |
| 9/16"    | 12     | 7/8"               | 23/64"    | 13    | MM-173-E     | 5     | ★375206-S7-8 |
| 1/2"     | 13     | 3/4"               | 9/16"     | 14    | MM-173-D     | 5     | ★375032-S36  |
| No. 6    | 32     | 7/16"              | 11/64"    | 17    | MM-173-A     | 5     | ★387443-S2   |
| No. 10   | 24     | 3/8"               | 1/4"      | 17    | MM-173-AA    | 5     | ★389228-S2   |
| No. 10   | 24     | 3/8"               | 5/16"     | 17    | MM-173-AB    | 5     | ★389599-S2   |
| 1/4"     | 20     | 7/16"              | 13/32"    | 17    | MM-173-JN    | 5     | 387500-S36B  |
| 5/16"    | 18     | 1/2"               | 21/64"    | 17    | MM-173-M     | 5     | ★379930-S    |
| 5/16"    | 18     | 1/2"               | 21/64"    | 17    | MM-173-MA    | 8     | ★385203-S100 |
| 5/16"    | 18     | 1/2"               | 3/8"      | 17    | MM-173-JF    | 5     | 379930-S301  |
| 5/16"    | 18     | 1/2"               | 3/8"      | 17    | MM-173-JG    | 5     | ★379930-S43B |
| 5/16"    | 18     | 1/2"               | 3/8"      | 17    | MM-173-JH    | 5     | 379930-S36   |
| 5/16"    | 18     | 1/2"               | 5/8"      | 17    | MM-173-MB    | 5     | ★386196-S100 |

△ Has Nylon Insert

(continued)

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PH-109      NUT — LOCKING (Cont'd)

| National Coarse Thread (Cont'd) |        |                    |           |       |              |       |              |
|---------------------------------|--------|--------------------|-----------|-------|--------------|-------|--------------|
| DIAMETER                        | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPES | LOCATOR CODE | GRADE | PART NUMBER  |
| 3/8"                            | 16     | 5/64"              | —         | 17    | MM-173-MC    | —     | 382802-S100  |
| 3/8"                            | 16     | 9/16"              | 11/32"    | 17    | MM-173-JB    | 5     | ★382802-S2   |
| 3/8"                            | 16     | 9/16"              | 3/8"      | 17    | MM-173-NL    | 5     | ★388757-S2Δ  |
| 3/8"                            | 16     | 9/16"              | 29/64"    | 17    | MM-173-JC    | 8     | ★384586-S101 |
| 3/8"                            | 16     | 9/16"              | 7/16"     | 17    | MM-173-JD    | 8     | ★378489-S2   |
| 3/8"                            | 16     | 9/16"              | 7/16"     | 17    | MM-173-JM    | 5     | 382802-S2    |
| 3/8"                            | 16     | 9/16"              | 7/16"     | 17    | MM-173-JM    | 5     | 382802-S36   |
| 3/8"                            | 16     | 9/16"              | 7/16"     | 17    | MM-173-JM    | 5     | 382802-S191  |
| 3/8"                            | 16     | 9/16"              | 7/16"     | 17    | MM-173-JM    | 5     | 382802-S301  |
| 3/8"                            | 16     | 9/16"              | 7/16"     | 17    | MM-173-JM    | 5     | 382802-S427  |
| 3/8"                            | 16     | 9/16"              | 7/16"     | 17    | MM-173-JM    | 5     | 382802-S436  |
| 7/16"                           | 14     | 5/8"               | 7/16"     | 17    | MM-169-LC    | 5     | ★387039-S7   |
| 7/16"                           | 14     | 11/16"             | 1/2"      | 17    | MM-173-BF    | 5     | 382400-S2    |
| 1/2"                            | 13     | 3/4"               | 19/32"    | 17    | MM-173-FC    | 8     | 385732-S100  |
| 1/2"                            | 13     | 3/4"               | 1/2"      | 17    | MM-173-FD    | —     | 379696-S2    |
| 1/2"                            | 13     | 3/4"               | 1/2"      | 17    | MM-173-FD    | —     | 379696-S440  |
| 5/8"                            | 11     | 15/16"             | 11/16"    | 17    | MM-173-FF    | 8     | 385505-S100  |
| 1/4"                            | 20     | 7/16"              | 1/4"      | 18    | MM-173-U     | 5     | ★382604-S100 |
| 5/16"                           | 18     | 1/2"               | 9/32"     | 18    | MM-173-NE    | 5     | 382634-S100  |
| 3/8"                            | 16     | 9/16"              | 7/32"     | 18    | MM-173-NA    | 5     | ★382290-S    |
| 3/8"                            | 16     | 9/16"              | 21/64"    | 18    | MM-173-MY    | 5     | ★383406-S100 |
| 1/2"                            | 13     | 3/4"               | 1/2"      | 18    | MM-173-MZ    | 5     | ★382599-S100 |
| 9/16"                           | 12     | 7/8"               | 1/2"      | 18    | MM-173-ND    | 5     | ★382827-S100 |
| 5/8"                            | 18     | 15/16"             | 11/16"    | 18    | MM-173-NP    | 5     | ★389530-S2   |
| 7/8"                            | 9      | 1-5/16"            | 3/4"      | 18    | MM-173-NF    | 8     | ★384217-S2   |
| 7/8"                            | 14     | 1-5/16"            | 3/4"      | 18    | MM-173-NR    | 8     | ★390303-S35  |
| 3/8"                            | 16     | 11/16"             | 1/2"      | 20    | MM-173-T     | 5     | ★380618-S2   |
| 5/16"                           | 18     | 9/16"              | 25/64"    | 21    | MM-173-TC    | 5     | 383098-S     |
| 7/16"                           | 14     | 5/8"               | 1/2"      | 22    | MM-173-X     | 5     | ★384353-S2   |
| 1/2"                            | 13     | 11/16"             | 9/16"     | 23    | MM-173-TH    | 8     | ★385132-S100 |
| No. 8                           | 32     | 1-1/8"             | 1/2"      | 24    | MM-340       | 5     | ★387303-S    |
| 3/8"                            | 16     | 9/16"              | 21/64"    | 25    | MM-325       | 5     | ★384485-S2   |

| National Fine Thread |    |         |        |    |           |   |               |
|----------------------|----|---------|--------|----|-----------|---|---------------|
| 7/16"                | 20 | 43/64"  | 29/64" | 2  | MM-140    | 5 | ★370664-S     |
| 3/8"                 | 24 | 9/16"   | 13/32" | 3  | MM-140-E  | 2 | ★372116-S     |
| 3/4"                 | 16 | 1-1/8"  | 9/16"  | 3  | MM-145    | 5 | 351126-S2     |
| 7/8"                 | 14 | 1-1/4"  | 5/8"   | 3  | MM-146    | 5 | 354845-S8     |
| 7/16"                | 20 | 11/16"  | 1/4"   | 4  | MM-150-E  | 5 | ★388009-S2    |
| 1/2"                 | 20 | 3/4"    | 7/16"  | 6  | MM-153    | 5 | ★371170-S     |
| 3/4"                 | 16 | 1-1/8"  | 7/16"  | 6  | MM-154    | 5 | ★373626-S7-8  |
| 7/16"                | 20 | 5/8"    | 7/16"  | 8  | MM-160-X  | 5 | ★371782-S7-8  |
| 7/16"                | 20 | 11/16"  | 7/16"  | 8  | MM-160-XB | 5 | ★390078-S8    |
| 5/8"                 | 18 | 59/64"  | 17/32" | 8  | MM-161    | 2 | ★371171-S     |
| 7/8"                 | 14 | 1-5/16" | 3/4"   | 8  | MM-162    | 5 | ★353705-S     |
| 1"                   | 14 | 1-1/2"  | 55/64" | 8  | MM-164    | 2 | ★353835-S     |
| 1/4"                 | 28 | 7/16"   | 5/32"  | 10 | MM-167    | 5 | ★351754-S33   |
| 5/16"                |    | 5/8"    | 5/32"  | 11 | MM-168    | 2 | ★372426-S8B   |
| No. 10               | 32 | 3/8"    | 15/64" | 13 | MM-169    | 5 | ★373235-S7Δ   |
| 9/16"                | 12 | —       | —      | 13 | MM-169-PA | — | 382484-S428   |
| 3/4"                 | 16 | 1-1/16" | 7/8"   | 13 | MM-169-N  | 2 | ★378211-S7-8Δ |
| 3/8"                 | 24 | 9/16"   | 13/32" | 14 | MM-169-NH | 8 | ★385696-S100  |
| 5/16"                | 24 | 1/2"    | 21/64" | 17 | MM-173-K  | 5 | ★376970-S2    |
| 3/8"                 | 24 | 9/16"   | 21/64" | 17 | MM-169-H  | 5 | ★378941-S7-8  |
| 3/8"                 | 24 | 9/16"   | 21/64" | 17 | MM-169-J  | 6 | ★379299-S2    |
| 3/8"                 | 24 | 9/16"   | 11/32" | 17 | MM-173-KA | 5 | ★388598-S7    |
| 7/16"                | 20 | 11/16"  | 1/2"   | 17 | MM-169-LB | 8 | 386180-S2     |
| 3/4"                 | 20 | 1-1/16" | 13/16" | 17 | MM-180-M  | 8 | ★379570-S100  |
| 3/8"                 | 24 | 9/16"   | 21/64" | 18 | MM-169-JE | 8 | 385130-S100   |
| 1/2"                 | 20 | 3/4"    | 7/16"  | 18 | MM-169-JH | 2 | ★377735-S7    |

Δ Has Nylon Insert

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## PH-109 NUT — LOCKING (Cont'd)

| National Fine Thread (Cont'd) |        |                    |           |       |              |       |              |
|-------------------------------|--------|--------------------|-----------|-------|--------------|-------|--------------|
| DIAMETER                      | THREAD | WIDTH ACROSS FLATS | THICKNESS | TYPES | LOCATOR CODE | GRADE | PART NUMBER  |
| 9/16"                         | 18     | 7/8"               | 5/16"     | 18    | MM-169-JX    | 8     | ★384922-S8   |
| 9/16"                         | 18     | 7/8"               | 23/64"    | 18    | MM-169-K     | 5     | ★377330-S    |
| 9/16"                         | 18     | 7/8"               | 3/8"      | 18    | MM-169-JJ    | 8     | ★385425-S100 |
| 9/16"                         | 18     | 7/8"               | 25/32"    | 18    | MM-169-KA    | 8     | ★384890-S2   |
| 5/8"                          | 18     | 15/16"             | 1/2"      | 18    | MM-169-RA    | 5     | 382412-S100  |
| 5/8"                          | 18     | 15/16"             | 11/16"    | 18    | MM-173-NP    | 5     | ★389530-S2   |
| 5/8"                          | 18     | 15/16"             | 7/8"      | 18    | MM-173-NG    | 8     | ★384031-S    |
| 7/8"                          | 14     | 1-3/16"            | 1-1/8"    | 18    | MM-173-NN    | 8     | 384033-S2    |
| 1-1/4"                        | 12     | 1-7/8"             | 3/4"      | 18    | MM-173-NM    | 8     | ★384701-S    |
| 7/16"                         | 20     | 5/8"               | 3/8"      | 25    | MM-173-W     | 5     | ★389722-S100 |

| Special Thread |    |          |        |    |           |    |              |
|----------------|----|----------|--------|----|-----------|----|--------------|
| 1-1/4"         | 18 | 1-13/16" | 5/8"   | 2  | MM-175    | 2  | ★352647-S    |
| 1-3/4"         | 12 | 2-5/8"   | 3/4"   | 2  | MM-176    | 5  | ★353585-S    |
| 7/8"           | 20 | 1-1/4"   | 31/64" | 3  | MM-147    | 5  | ★372631-S    |
| 1"             | 20 | 1-1/2"   | 1/2"   | 3  | MM-149    | 5  | ★371887-S    |
| 1-1/4"         | 18 | 2"       | 15/32" | 3  | MM-177    | 5  | ★372040-S    |
| 1-1/4"         | 18 | 2-1/4"   | 5/8"   | 3  | MM-179    | 5  | ★371000-S    |
| 1"             | 20 | 1-1/2"   | 9/16"  | 4  | MM-179-A  | 8  | ★384235-S100 |
| 11/16"         | 16 | 15/16"   | 7/16"  | 6  | MM-179-B  | 5  | ★380013-S7-8 |
| 11/16"         | 18 | 1"       | 9/16"  | 8  | MM-179-J  | 5  | ★380460-S7-8 |
| 3/4"           | 20 | 26mm     | 20mm   | 17 | MM-180-N  | 12 | ★E422103-S79 |
| 1"             | 20 | 1-9/32"  | 3/4"   | 18 | MM-173-NC | 5  | ★381648-S7-8 |
| 1/2"           | 28 | 3/4"     | 13/32" | 23 | MM-173-TJ | 5  | ★389049-S    |

| Metric Coarse Thread |                    |           |      |              |     |                 |
|----------------------|--------------------|-----------|------|--------------|-----|-----------------|
| NOMINAL SIZE         | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C | PART NUMBER     |
| M6                   | 12.2mm             | 7.24mm    | 1    | AM-1-J       | 9   | ★N807679-S42    |
| M6                   | 17.6mm             | 15.45mm   | 1    | AM-1-K       |     | N808449-S309    |
| M10                  | 24.5mm             | 10mm      | 1    | AM-1-H       | —   | N807537-S190    |
| M22                  | 35.41mm            | 6.96mm    | 2    | AM-28-C      | 9   | ★N805379-S100   |
| M8                   | 17.6mm             | 10.3mm    | 3    | AM-1-L       | 9   | N620481-S427    |
| M10                  | 17mm               | 10mm      | 3    | AM-1-E       | 8   | ★E822067-S71    |
| M10                  | 17.2mm             | 10mm      | 3    | AM-1-F       | 9   | ★N801821-S2     |
| M10                  | 29mm               | 20mm      | 3    | AM-1-A       | 8   | ★N804199-S190   |
| M10                  | 29mm               | 20mm      | 3    | AM-1-B       | 8   | N804199-S191    |
| M14                  | —                  | 15.7mm    | 3    | AM-1-M       | 8   | N620848-S60     |
| M14                  | 21mm               | 14mm      | 3    | AM-1-G       | 8   | ★N800895-S2     |
| M14                  | 21mm               | 14mm      | 3    | AM-1-G       | 8   | N800895-S301    |
| M14                  | 21mm               | 14mm      | 3    | AM-1-G       | 8   | ★N800895-S427   |
| M14                  | 21mm               | 14mm      | 3    | AM-1-G       | 8   | N800895-S441    |
| M10                  | 15mm               | 6.5mm     | 6    | AM-4-E       | 9   | N801090-S2      |
| M6                   | 10mm               | 6mm       | 7    | AM-8-E       | 9   | ★E822005-S72    |
| M6                   | 11mm               | 6.7mm     | 7    | AM-8-D       | 9   | N800907-S2      |
| M8                   | 13mm               | 7mm       | 7    | AM-16-H      | 9   | N800359-S2      |
| M8                   | 13mm               | 7.5mm     | 7    | AM-16-F      | 9   | ★N801832-S2     |
| M8                   | 13mm               | 8mm       | 7    | AM-16-G      |     | ★E822023-S72    |
| M8                   | 13mm               | 8mm       | 7    | AM-16-A      |     | ★E822023-S201   |
| M10                  | 17mm               | 8.7mm     | 7    | AM-5-VC      | 10  | ★E822007-S76    |
| M20                  | 30mm               | 16mm      | 8    | AM-17-E      |     | ★N805836-S160Δ  |
| M12                  | —                  | 15.0mm    | 9    | AM-5-AD      | 9   | N800169-S60     |
| M10                  | 15.00mm            | 4.07mm    | 11   | AM-168-A     | —   | N802585-S435    |
| M10                  | 16.0mm             | 12.8mm    | 13   | AM-40-A      | 10  | N805474-S60     |
| M10                  | 17.3mm             | 9.58mm    | 13   | AM-40        | 9   | ★N802757-S2     |
| M10                  | 17.3mm             | 11.2mm    | 13   | AM-41        | 9   | ★N802643-S2     |
| M12                  | 18mm               | 14.9mm    | 13   | AM-41-E      | 10  | ★N805475-S150Δ  |
| M16                  | 24mm               | 16mm      | 13   | AM-41-H      | 10  | ★N805477-S1050Δ |
| M18                  | 30mm               | 28.5mm    | 13   | AM-41-J      | 10  | ★N804891-S150   |
| M20                  | 30mm               | 22.8mm    | 13   | AM-41-K      | 10  | ★N805970-S160Δ  |
| M12                  | 26.5mm             | 15.4mm    | 14   | AM-85-F      |     | N801641-S59     |

Δ Has Nylon Insert

\* Motorcraft number

(continued)



## NUT — LOCKING (Cont'd)

(continued)

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## PH-109 NUT — LOCKING (Cont'd)

### Metric Coarse Thread (Cont'd)

| NOMINAL SIZE | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C | PART NUMBER     |
|--------------|--------------------|-----------|------|--------------|-----|-----------------|
| M10          | 15mm               | 10mm      | 17   | AM-5-UF      | 9   | ★ N802068-S2    |
| M10          | 15mm               | 10.7mm    | 17   | AM-5-U       | 17  | N803811-S2      |
| M10          | 15mm               | 12mm      | 17   | AM-5-VA      | 9   | ★ N802053-S100  |
| M10          | 15mm               | 12mm      | 17   | AM-5-ZZ      | 17  | N811499-S101    |
| M10          | 15mm               | 14mm      | 17   | AM-5-VK      | 9   | ★ N800419-S2    |
| M10          | 15mm               | 14mm      | 17   | AM-5-VH      | 9   | ★ N800848-S36M  |
| M10          | 15mm               | 14mm      | 17   | AM-5-VI      | 10  | N801206-S2      |
| M10          | 15mm               | 14mm      | 17   | AM-5-VI      | 10  | N801206-S60     |
| M10          | 15mm               | 14mm      | 17   | AM-5-VI      | 10  | ★ N801206-S436  |
| M10          | 15mm               | 14mm      | 17   | AM-5-WB      | 9   | ★ N802553-S100  |
| M10          | 17mm               | 12.5mm    | 17   | AM-5-VJ      | 10  | N800077-S2      |
| M10          | 20.7mm             | 16.8mm    | 17   | AM-12-HF     | 9   | N807716-S       |
| M12          |                    | 13.0mm    | 17   | AM-41-L      |     | N800937-S301    |
| M12          | 14.0mm             | 6.5mm     | 17   | AM-5-AQ      | 9   | N801995-S436    |
| M12          | 17mm               | 13mm      | 17   | AM-5-BB      | 10  | N800937-S60     |
| M12          | 17.3mm             | 12.4mm    | 17   | AM-5-VG      | 9   | ★ N808937-S100  |
| M12          | 17.8mm             | 14.8mm    | 17   | AM-6-G       | 9   | ★ N801641-S36   |
| M12          | 18mm               | 12.8mm    | 17   | AM-5-WC      | 9   | ★ N802613-S100  |
| M12          | 18mm               | 12.5mm    | 17   | AM-5-WN      | 9   | N805075-S40     |
| M12          | 18mm               | 13mm      | 17   | AM-5-VO      | 10  | ★ N800937-S100  |
| M12          | 18mm               | 13mm      | 17   | AM-5-WG      | 10  | ★ N800937-S150  |
| M12          | 18mm               | 13mm      | 17   | AM-5-WR      | 10  | ★ N800937-S190  |
| M12          | 18mm               | 13mm      | 17   | AM-5-WM      | 10  | ★ N800237-S102  |
| M12          | 18mm               | 16mm      | 17   | AM-5-VZ      | 9   | ★ N801995-S2    |
| M12          | 18mm               | 16mm      | 17   | AM-5-VZ      | 9   | N801995-S55M    |
| M12          | 18mm               | 16.8mm    | 17   | AM-5-A       | 9   | ★ N602483-S150  |
| M12          | 18mm               | 16.8mm    | 17   | AM-5-AA      | 9   | N620483-S309    |
| M12          | 18mm               | 16.8mm    | 17   | AM-5-AB      | 9   | N620483-S427    |
| M12          | 18mm               | 16.8mm    | 17   | AM-5-AC      | 9   | N620483-S436    |
| M12          | 18mm               | 16.8mm    | 17   | AM-5-VM      | 9   | ★ N620483-S2    |
| M12          | 18mm               | 16.8mm    | 17   | AM-6-H       | 10  | ★ N800937-S7    |
| M12          | 18mm               | 16.8mm    | 17   | AM-6-H       | 10  | N800937-S150    |
| M12          | 18mm               | 16.8mm    | 17   | AM-6-HA      | 10  | N800937-S193    |
| M12          | 18mm               | 16.8mm    | 17   | AM-6-HB      | 10  | N800937-S436    |
| M12          | 21mm               | 17.5mm    | 17   | AM-5-WD      | 10  | ★ N802835-S190  |
| M12          | 21mm               | 17.5mm    | 17   | AM-5-WE      | 10  | N802978-S190    |
| M12          | 21mm               | 17.5mm    | 17   | AM-5-WE      | 9   | N802978-S427    |
| M12          | 21mm               | 18.8mm    | 17   | AM-6-A       | 10  | N802073-S2      |
| M12          | 26mm               | 12.5mm    | 17   | AM-41-D      | 10  | ★ N807900-S427A |
| M14          | 20mm               | 14mm      | 17   | AM-5-VW      | 9   | N800782-S2      |
| M14          | 20mm               | 19mm      | 17   | AM-5-VV      | 10  | N801670-S100    |
| M14          | 21mm               | 15mm      | 17   | AM-5-WX      | 10  | N805480-S426    |
| M14          | 21mm               | 15mm      | 17   | AM-5-WL      | 10  | ★ N803986-S160  |
| M14          | 21mm               | 15mm      | 17   | AM-5-WP      | 10  | N805480-S160    |
| M14          | 21mm               | 17.8mm    | 17   | AM-5-WF      | 10  | ★ N803226-S190  |
| M14          | 21mm               | 18.9mm    | 17   | AM-5-VT      | 10  | ★ N800526-S100  |
| M14          | 21mm               | 18.9mm    | 17   | AM-5-VX      | 9   | ★ N802138-S2    |
| M14          | 21mm               | 18mm      | 17   | AM-5-W       | 10  | ★ N802394-S2    |
| M14          | 15.4mm             | 12.5mm    | 17   | AM-5-WU      |     | ★ N804104-S100  |
| M14          | 21.9mm             | 17mm      | 17   | AM-5-WT      | 10  | ★ N805476-S309  |
| M14          | 24mm               | 15.50mm   | 17   | AM-5-WJ      | 10  | ★ N803956-S150  |
| M14          | 27.0mm             | 12.5mm    | 17   | AM-5-WW      |     | N804608-S150    |
| M16          | 24mm               | 14mm      | 17   | AM-5-WH      | 10  | ★ N804147-S150  |
| M16          | 24mm               | 16mm      | 17   | AM-5-WS      | 10  | ★ N805477-S60   |
| M16          | 24mm               | 21mm      | 17   | AM-5-VU      | 9   | N620485-S2      |
| M16          | 24mm               | 21mm      | 17   | AM-5-VU      | 9   | N620485-S56     |
| M16          | 24mm               | 21mm      | 17   | AM-5-VU      | 9   | N620485-S427    |
| M16          | 24mm               | 21mm      | 17   | AM-5-VU      | 9   | N620485-S441    |
| M16          | 24mm               | 21.4mm    | 17   | AM-5-VS      | 10  | N800237-S60     |
| M16          | 24mm               | 21.4mm    | 17   | AM-5-VS      | 10  | ★ N800237-S100  |
| M16          | 24mm               | 21.4mm    | 17   | AM-5-WA      | 10  | ★ N800237-S101  |

(continued)

# Standard and Utility Parts Catalog

PH-109      NUT — LOCKING (Cont'd)

| Metric Coarse Thread (Cont'd) |                    |           |      |              |     |                |
|-------------------------------|--------------------|-----------|------|--------------|-----|----------------|
| NOMINAL SIZE                  | WIDTH ACROSS FLATS | THICKNESS | TYPE | LOCATOR CODE | P/C | PART NUMBER    |
| M16                           | 24mm               | 21.4mm    | 17   | AM-5-VS      | 10  | N800237-S426   |
| M16                           | 37.0mm             | 25.0mm    | 17   | AM-5-WV      |     | N804431-S190   |
| M16                           | 37.0mm             | 25.0mm    | 17   | AM-5-WV      | —   | N804431-S441   |
| M18                           | 24mm               | 14mm      | 17   | AM-5-B       | 9   | ★ N804320-S150 |
| M18                           | 24mm               | 14.5mm    | 17   | AM-5-BA      | 10  | ★ N805471-S150 |
| M20                           | 28mm               | 25.70mm   | 17   | AM-5-AZ      | 10  | W706540-S900   |
| M20                           | 30mm               | 22.4mm    | 17   | AM-5-CE      | 10  | N805028-S56    |
| M4                            | 7mm                | 5.2mm     | 18   | AM-6-E       |     | ★ E822010-S72Δ |
| M4                            | 7mm                | 5.2mm     | 18   | AM-6-D       | 8   | E822110-S      |
| M4                            | 7mm                | 5.2mm     | 18   | AM-6-D       | 8   | E822110-S72    |
| M6                            | 10mm               | 6mm       | 18   | AM-5         | 10  | ★ N620412-S    |
| M6                            | 10mm               | 6mm       | 18   | AM-7-C       | 5   | ★ N620432-S36  |
| M8                            | 12.73mm            | 8.68mm    | 18   | AM-11-BA     | 8   | ★ E822018-S71  |
| M8                            | 12.73mm            | 8.68mm    | 18   | AM-11-A      | 8   | E822018-S101   |
| M8                            | 13mm               | 7mm       | 18   | AM-7-E       |     | ★ E620453-S72  |
| M8                            | 13mm               | 7.5mm     | 18   | AM-7         |     | E620433-S72    |
| M8                            | 13mm               | 9mm       | 18   | AM-7-B       | 9   | N620467-S2     |
| M8                            | 13mm               | 10mm      | 18   | AM-5-K       | 9   | ★ N620467-S7   |
| M8                            | 13mm               | 10mm      | 18   | AM-7-A       | 9   | ★ N620467-S100 |
| M8                            | 13mm               | 8.8mm     | 18   | AM-11-C      | 8   | N620433-S2     |
| M8                            | 13mm               | 11mm      | 18   | AM-11-B      | 9   | ★ N800280-S7   |
| M10                           | 15mm               | 5.5mm     | 18   | AM-12-HB     | 10  | ★ N800380-S    |
| M10                           | 15mm               | 9mm       | 18   | AM-12-HC     | 10  | N801308-S100   |
| M10                           | 15.0mm             | 11.0mm    | 18   | AM-5-L       |     | ★ W700420-S403 |
| M10                           | 15mm               | 12mm      | 18   | AM-12-J      | 9   | ★ N620468-S2   |
| M10                           | 15mm               | 12mm      | 18   | AM-12-J      | 9   | N620468-S60    |
| M10                           | 17mm               | 7.5mm     | 18   | AM-12-T      | 8   | ★ E620434-S72  |
| M10                           | 17mm               | 9mm       | 18   | AM-12-JC     | 8   | E822069-S83    |
| M10■                          | 17mm               | 9.5mm     | 18   | AM-12-HA     | 9   | ★ E620454-S72  |
| M10                           | 17mm               | 10mm      | 18   | AM-12-JB     | 8   | E822025-S72    |
| M10                           | 17mm               | 10mm      | 18   | AM-12-JA     | 10  | N620602-S2     |
| M10                           | 18.29mm            | 9.49mm    | 18   | AM-12-HC     | —   | ★ N805347-S8   |
| M12                           | 17.8mm             | 14mm      | 18   | AM-12-M      | 9   | N620469-S2     |
| M12                           | 18mm               | 12mm      | 18   | AM-12-D      | 10  | ★ N620603-S2   |
| M12                           | 18mm               | 12.5mm    | 18   | AM-12-E      | 9   | N803985-S160   |
| M12                           | 18.8mm             | 14.05mm   | 18   | AM-12-L      | 10  | ★ E822033-S71  |
| M12                           | 18.8mm             | 14.05mm   | 18   | AM-12-LA     | 10  | ★ E822033-S72  |
| M12                           | 19mm               | 11.5mm    | 18   | AM-13-E      |     | ★ E620435-S72  |
| M12                           | 19mm               | 14mm      | 18   | AM-12-N      | 10  | E822079-S83    |
| M12                           | 21mm               | 21.60mm   | 18   | AM-13-S      | 9   | N802875-S2     |
| M14                           | 21mm               | 10.6mm    | 18   | AM-13-HA     | 9   | ★ N806573-S309 |
| M14                           | 21mm               | 14mm      | 18   | AM-11-BB     | 8   | E822058-S72    |
| M14                           | 21mm               | 16mm      | 18   | AM-13-H      | 10  | ★ N620604-S2   |
| M14                           | 24mm               | 16mm      | 18   | AM-13-F      | 10  | N620604-S100   |
| M16                           | 24mm               | 14mm      | 18   | AM-12-P      | 10  | N801311-S101   |
| M30                           | 53mm               | 12.5mm    | 18   | AM-12-C      | —   | W709296-S426   |
| M6                            | 11mm               | 10mm      | 23   | AM-27-E      | 9   | ★ N800889-S36  |
| M6                            | 11mm               | 10mm      | 23   | AM-27-E      | 9   | N800889-S101   |
| M10                           | 17.3mm             | 18.46mm   | 23   | AM-27-J      | —   | N808909-S36    |
| 34mm                          | 42.9mm             | 22.9mm    | 25   | AM-27-M      | —   | W710242-S426   |

## PH-111 NUT — OCTAGON



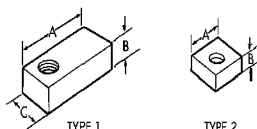
PH111

### Special Thread

| DIAMETER | THREAD | WIDTH ACROSS FLATS | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------------------|-----------|--------------|-------|-------------|
| 5/8"     | 24     | 3/4"               | 3/16"     | MM-182       | —     | 356094-S13ø |

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## PH-719 NUT — RECTANGULAR


PH719  
12/22/2003

| DIAMETER | THREAD | A      | B    | C    | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|--------|------|------|------|--------------|-------|-------------|
| 9/16"    | 12     | 2-1/8" | 5/8" | 7/8" | 1    | MM-308       | 8     | ★379883-S2  |

### Metric

| NORMAL SIZE | THREAD | A      | B     | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
|-------------|--------|--------|-------|------|--------------|-------|--------------|
| M6          | 6      | 11.1mm | 4.9mm | 2    | MM-308-A     | 8     | W701600-S426 |

## PH-555 NUT — RETAINER — LOCK



PH-555

| OUTSIDE DIAMETER | INSIDE DIAMETER | THICKNESS | LOCATOR CODE | GRADE | PART NUMBER |
|------------------|-----------------|-----------|--------------|-------|-------------|
| 1-1/16"          | 49/64"          | 1/2"      | MM-304-A     | 5     | 374536-S*   |
| 1-5/64"          | 49/64"          | 1/2"      | MM-304-C     | —     | 390622-S    |
| 1-9/64"          | 3/4"            | 1/2"      | MM-304-AH    | 5     | ★385630-S5* |
| 1-9/64"          | 53/64"          | 1/2"      | MM-304-B     | 5     | ★383841-S*  |
| 1-9/64"          | 3/4"            | 1/2"      | MM-304-AG    | 5     | ★385630-S*  |

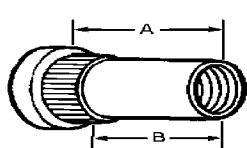
### Metric

| OUTSIDE DIAMETER | INSIDE DIAMETER | THICKNESS | LOCATOR CODE | P/C   | PART NUMBER  |
|------------------|-----------------|-----------|--------------|-------|--------------|
| M20              | 20.5mm          | 13.5mm    | AM-83        |       | N802696-S    |
| 27.75            | 3.7mm           | 6.5mm     | AM-83-F      | Steel | W710907-S439 |
| M27.8            | 17mm            | 13mm      | AM-83-E      | 8     | ★E890227-S   |
| M27.8            | 17mm            | 13mm      | AM-83-F      | 8     | ★N801326-S   |
| M32              | 24.7mm          | 21.9mm    | AM-83-G      | —     | W708119-S426 |

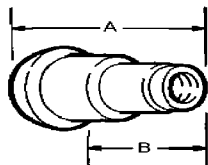
\* 8 Slots

# Standard and Utility Parts Catalog

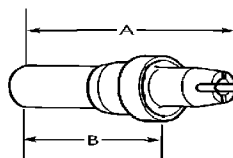
## PH-165 NUT — RIVET TYPE



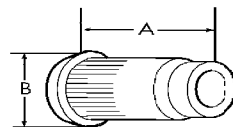
TYPE 1



TYPE 2



TYPE 3



TYPE 4

PH-165  
01/10/2003

| DIAMETER | THREAD | A      | B      | LOCATOR CODE | TYPE | PART NUMBER  |
|----------|--------|--------|--------|--------------|------|--------------|
| 3/8"     | 16     | 13/16" | 21/32" | MM-121       | 1    | ★372093-S7-8 |

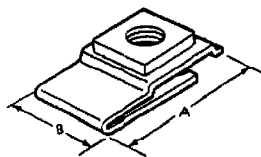
### Metric

| DIAMETER | THREAD | A       | B       | LOCATOR CODE | TYPE | PART NUMBER   |
|----------|--------|---------|---------|--------------|------|---------------|
| M6       | 1mm    | 14mm    | 10.7mm  | AM-78-E      | 1    | N800446-S36   |
| M8       | 1.25mm | 30.94mm | 28.71mm | AM-78-EB     | 1    | W708910-S900  |
| M4       | 0.70mm | 10.35mm | 5.28mm  | AM-78-F      | 2    | N808041-S309  |
| M5       | —      | 12.8mm  | 5.0mm   | AM-78-FA     | 2    | W708796-S309  |
| M6       | —      | 17.47mm | 16.25mm | AM-78-FD     | 2    | W706172-S309  |
| M6       | —      | 17.47mm | 16.25mm | AM-78-FD     | 2    | W706172-S4373 |
| M4.2     | —      | 24mm    | 17mm    | AM-78-G      | 3    | W706272-S300  |
| M4.2     | —      | —       | —       | AM-78-GA     | 3    | W708178-S300  |
| M4.2     | —      | —       | —       | AM-78-GB     | 3    | W708179-S300  |
| M6       | —      | 19.3mm  | 18.0mm  | AM-78-J      | 4    | W709277-S300  |
| M6       | 1.0mm  | 17.0mm  | 12.0mm  | AM-78-HA     | 4    | W710373-S300  |
| M10      | —      | 17.9mm  | 17.65mm | AM-78-H      | 4    | W705104-S309  |

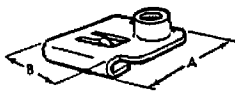
\$ With Sealer

PH-100

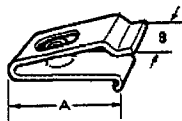
NUT and RETAINER ASSY.



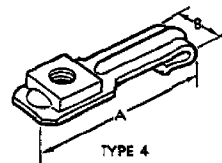
TYPE 1



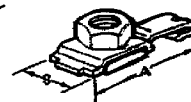
TYPE 2



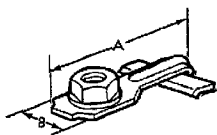
TYPE 3



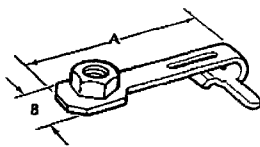
TYPE 4



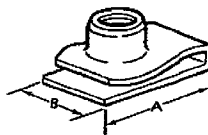
TYPE 5



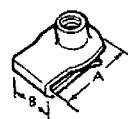
TYPE 6



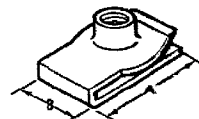
TYPE 7



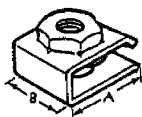
TYPE 8



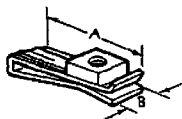
TYPE 9



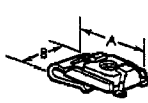
TYPE 10



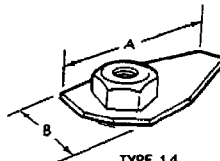
TYPE 11



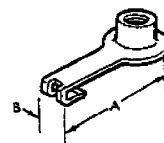
TYPE 12



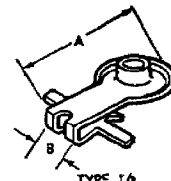
TYPE 13



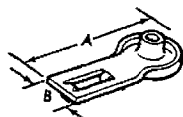
TYPE 14



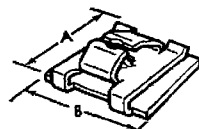
TYPE 15



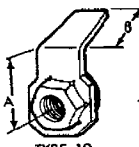
TYPE 16



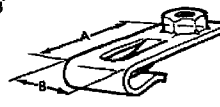
TYPE 17



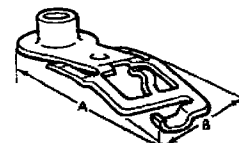
TYPE 18



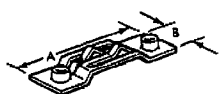
TYPE 19



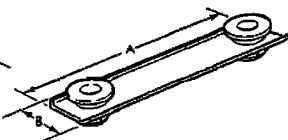
TYPE 20



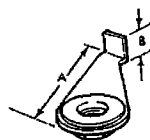
TYPE 21



TYPE 22



TYPE 23



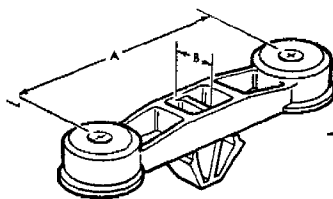
TYPE 24



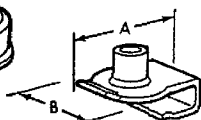
TYPE 25



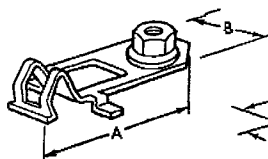
TYPE 26



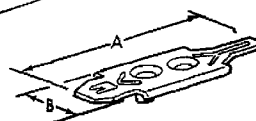
TYPE 27



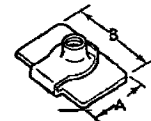
TYPE 28



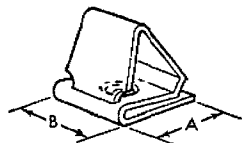
TYPE 29



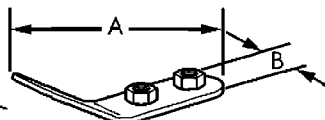
TYPE 30



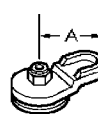
TYPE 31



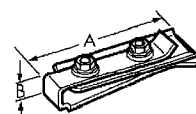
TYPE 32



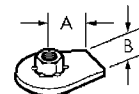
TYPE 33



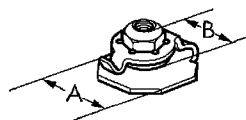
TYPE 34



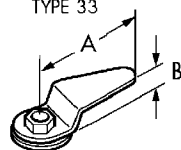
TYPE 35



TYPE 36



TYPE 37



TYPE 38

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11/24/2004

(continued)

**PH-100      NUT and RETAINER ASSY. (Cont'd)**

| National Coarse Thread |        |          |        |      |              |       |             |
|------------------------|--------|----------|--------|------|--------------|-------|-------------|
| DIAMETER               | THREAD | A        | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
| 5/16"                  | 18     | 1"       | 43/64" | 8    | MM-192-AA    | 2     | ★378680-S2  |
| 5/16"                  | 18     | 1"       | 9/16"  | 9    | MM-192-AD    | 5     | ★379114-S2  |
| 5/16"                  | 18     | 1-11/32" | 5/8"   | 10   | MM-284-DF    | 5     | 384481-S100 |
| 7/16"                  | 14     | 1-7/32"  | 1"     | 11   | MM-284-EJ    | 5     | 388255-S2   |
| 29/64"                 | 10     | 9/16"    | 29/64" | 12   | MM-284-EL    | —     | 388556-S2   |
| 3/8"                   | 16     | 1-1/2"   | 7/8"   | 14   | MM-284-EL    | —     | 388516-S100 |
| DIAMETER               | THREAD | A        | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
| 3/8"                   | 16     | 1-3/16"  | 15/16" | 28   | MM-249-E     | 5     | 388720-S2   |
| 7/16"                  | 14     | .905     | .512   | 37   | MM-197       | 5     | 391984-S436 |

| Metric Coarse Thread |         |         |      |              |      |                 |
|----------------------|---------|---------|------|--------------|------|-----------------|
| NOMINAL SIZE         | A       | B       | TYPE | LOCATOR CODE | P/C  | PART NUMBER     |
| M10                  | 46.5mm  | 23mm    | 1    | AM-55-N      | 9    | ★N808046-S36    |
| M12                  | 40.7mm  | 20.5mm  | 1    | AM-36-ND     |      | ★N811780-S428   |
| M6                   | 27.5mm  | 17mm    | 2    | AM-55-L      | 9    | ★N802172-S2     |
| M16                  | 33mm    | 29mm    | 4    | AM-58-FA     | 10   | W708553-S901    |
| M12                  | 47mm    | 24mm    | 5    | AM-192-B     |      | ★W808472-S60    |
| M12                  | 57mm    | 26mm    | 5    | AM-192       | 10.9 | ★N804009-S2     |
| M14                  | 74.0mm  | 10.30mm | 5    | AM-59-F      | 10   | ★N808439-S60    |
| M20                  | 42.25mm | 20.5mm  | 5    | AM-192-A     |      | W707045-S427    |
| M12                  | 62mm    | 26mm    | 7    | AM-59-E      | 9    | ★N800533-S2     |
| M4                   | 17.0mm  | 12.5mm  | 8    | AM-58-U      | —    | W702191-S307    |
| M4.2                 | 16.3mm  | 13mm    | 8    | AM-61-AQ     |      | W705961-S424    |
| M6                   | 17.5mm  | 15mm    | 8    | AM-61-AZ     |      | W700767-S424    |
| M6                   | 23mm    | 15mm    | 8    | AM-58-E      | 9    | N623332-S21     |
| M6                   | 23mm    | 15mm    | 8    | AM-58-E      | 9    | N623332-S36     |
| M6                   | 23mm    | 15mm    | 8    | AM-58-E      | 9    | N623332-S100    |
| M6                   | 23mm    | 15mm    | 8    | AM-58-E      | 9    | N623332-S309    |
| M6                   | 23mm    | 15mm    | 8    | AM-58-EE     | 9    | N800854-S2      |
| M6                   | 24.5mm  | 12mm    | 8    | 230-120      | 9    | N811606-S301    |
| M6                   | 30mm    | 15mm    | 8    | AM-58-FB     | 9    | N623342-S2      |
| M6                   | 30mm    | 15mm    | 8    | AM-58-F      | 9    | ★N623342-S101   |
| M6                   | 30mm    | 15mm    | 8    | AM-58-FC     | 9    | N623342-S301    |
| M6                   | 30mm    | 15mm    | 8    | AM-58-FD     | 9    | N623342-S309    |
| M6                   | 30mm    | 15mm    | 8    | AM-58-FA     | 9    | ★N623342-S1001  |
| M8                   |         |         | 8    | AM-58-T      |      | ★N800911-S55    |
| M8                   | 31mm    | 13.7mm  | 8    | AM-58-L      | 9    | N623343-S2      |
| M8                   | 31mm    | 13.7mm  | 8    | AM-58-L      | 9    | N623343-S301    |
| M8                   | 34.8mm  | 14.7mm  | 8    | AM-58-M      | 9    | ★N802454-S2     |
| M8                   | 36.5mm  | 17mm    | 8    | AM-58-MA     | —    | ★W705366-S301   |
| M8                   | 47mm    | 20mm    | 8    | AM-61-A      |      | N811658-S301    |
| M10                  | 32mm    | 23.5mm  | 8    | AM-61-EA     | 9    | N623334-S       |
| M10                  | 32mm    | 23.5mm  | 8    | AM-61-F      | 9    | ★N623334-S53MT☆ |
| M10                  | 32mm    | 23.5mm  | 8    | AM-61-E      | 9    | ★N623334-S100   |
| M10                  | 32mm    | 23.5mm  | 8    | AM-61-EB     | 9    | N623334-S301    |
| M10                  | 32mm    | 23.5mm  | 8    | AM-61-EC     | 9    | N623334-S426    |
| M10                  | 33.5mm  | 28.5mm  | 8    | AM-61-ED     | 8    | N811481-S436    |
| M10                  | 35.5mm  | 17.5mm  | 8    | AM-61-AY     | 9    | ★N808640-S426   |
| M10                  | 48.5mm  | 24.0mm  | 8    | AM-61-H      |      | ★W706355-S436   |
| M12                  | 24mm    | 20mm    | 8    | AM-61-G      | 9    | ★N623335-S53B   |
| M14                  | 54.5mm  | 40.5mm  | 8    | AM-61-GA     | 10   | W708346-S426    |
| M14                  | 54.5mm  | 40.5mm  | 8    | AM-61-GA     | 10   | W708346-S427    |
| M14                  | 75mm    | 50mm    | 8    | AM-61-GB     | —    | W706091-S427    |
| M4                   | 17.9mm  | 15.0mm  | 9    | AM-58-CD     |      | ★N807285-S428   |
| M4.8                 | 21.0mm  | 15.0mm  | 9    | AM-58-CC     |      | W700679-S303    |
| M6                   | 1.0mm   |         | 9    | AM-58-CB     |      | N800925-S100    |
| M6                   | 1.0mm   | —       | 9    | AM-58-CA     | —    | N800925-S100    |
| M6                   | 15.9mm  | 13.5mm  | 9    | AM-58-CA     | 9    | ★N803567-S8     |
| M6                   | 15.9mm  | 16mm    | 9    | AM-58-C      | 9    | N804639-S2      |
| M6                   | 20.3mm  | 14.5mm  | 9    | AM-66-J      | 9    | N806728-S2      |
| M6                   | 20.3mm  | 14.5mm  | 9    | AM-66-J      | 9    | N806728-S56     |

# Standard and Utility Parts Catalog

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## PH-100 NUT and RETAINER ASSY. (Cont'd)

### Metric Coarse Thread (Cont'd)

| NOMINAL SIZE | A      | B      | TYPE | LOCATOR CODE | P/C | PART NUMBER     |
|--------------|--------|--------|------|--------------|-----|-----------------|
| M6           | 20.3mm | 14.5mm | 9    | AM-66-J      | 9   | N806728-S428    |
| M6           | 23mm   | 12mm   | 9    | AM-58-G      | 9   | N802331-S53     |
| M6           | 23mm   | 12mm   | 9    | AM-58-G      | 9   | N802331-S438    |
| M6           | 25.5mm | 14mm   | 9    | AM-31-E      | 9   | N800911-S3011   |
| M6           | 30mm   | 15mm   | 9    | AM-58-FF     | 9   | ★ N800925-S100☆ |
| M6           | 30mm   | 25.5mm | 9    | AM-58-FH     | 9   | ★ N803278-S100  |
| M6           | 33.5mm | 15.7mm | 9    | AM-58-FE     | 9   | N805889-S100    |
| M6           | 35mm   | 15mm   | 9    | AM-58-FG     | 9   | ★ N803493-S2    |
| M8           | 25.5mm | 14mm   | 9    | AM-31-E      | 9   | N800911-S2      |
| M8           | 28.4mm | 6.4mm  | 9    | AM-31-F      | 9   | ★ N802461-S2    |
| M8           | 28.4mm | 6.4mm  | 9    | 230-120      |     | N802461-S426    |
| M8           | 29mm   | 10mm   | 9    | AM-31-D      | 9   | ★ N802104-S2    |
| M8           | 37mm   | 14mm   | 9    | AM-31-H      | 9   | N800822-S101    |
| M8           | 37mm   | 14mm   | 9    | AM-31-H      | 9   | N800822-S301    |
| M8           | 39.1mm | 14.2mm | 9    | AM-31-G      | 9   | ★ N800791-S2    |
| M10          | 32mm   | 17mm   | 9    | AM-31-ZY     |     | N801673-S436    |
| M10          | 32mm   | 17mm   | 9    | AM-31-K      | 9   | ★ N801953-S53   |
| M10          | 35.5mm | 14mm   | 9    | AM-31-ZZ     |     | N811495-S426    |
| M10          | 60.5mm | 24mm   | 9    | AM-31-L      | 9   | ★ N802149-S53   |
| M12          | 78mm   | 70mm   | 9    | AM-31-ZQ     |     | ★ W706975-S426  |
| M14          | 46.5mm | 3mm    | 9    | AM-66-E      | 9   | ★ N800974-S100☆ |
| M14          | 65.0mm | 32.5mm | 9    | AM-66-E      | 10  | W710874-S441    |
| M4           | 20mm   | 12mm   | 10   | AM-58-W      | 9   | ★ N623331-S421  |
| M4           | 21mm   | 10mm   | 10   | AM-50-AE     | 9   | N623340-S2      |
| M4           | 21mm   | 10mm   | 10   | AM-50-AE     | 9   | ★ N623340-S36   |
| M5           | 19.8mm | 15mm   | 10   | AM-50-E      | 9   | E824115-S74     |
| M6           | 6.5mm  | 1mm    | 10   | 230-120      |     | N623332-S426    |
| M6           | 23.4mm | 14.2mm | 10   | AM-50-AA     |     | E824125-S81     |
| M6           | 23.5mm | 23mm   | 10   | AM-50-AD     |     | N804272-S2      |
| M6           | 23.5mm | 23mm   | 10   | AM-50-AD     | —   | N804272-S439    |
| M6           | 23.8mm | 16.0mm | 10   | AM-58-GA     |     | ★ W700528-S307  |
| M6           | 24mm   | 9.6mm  | 10   | AM-50-L      |     | W705958-S301    |
| M6           | 24.1mm | 11.8mm | 10   | AM-50-AB     |     | ★ E824116-S71M  |
| M6           | 24.1mm | 11.8mm | 10   | AM-50-AB     |     | E824116-S81     |
| M6           | 25.6mm | 12.0mm | 10   | AM-60-A      |     | W705797-S436    |
| M6           | 28mm   | 27mm   | 10   | AM-50-A      | 9   | ★ N802369-S2    |
| M6           | 29.6mm | 12.5mm | 10   | AM-50-AG     |     | ★ W705916-S428  |
| M6           | 33.5mm | 22.4mm | 10   | AM-50-AF     | 9   | ★ N802387-S100  |
| M6           | 48mm   | 12.7mm | 10   | AM-50-B      | 9   | ★ N801595-S2    |
| M6           | 48mm   | 12.7mm | 10   | AM-50-BA     | 9   | ★ N801595-S53   |
| M8           |        |        | 10   | 230-120      |     | N811547-S426    |
| M8           | 25mm   | 14mm   | 10   | AM-50-KB     | 9   | N623333-SA      |
| M8           | 25mm   | 14mm   | 10   | AM-50-KK     | 9   | ★ N623333-S53   |
| M8           | 25mm   | 14mm   | 10   | AM-50-K      | 9   | N623333-S100    |
| M8           | 25mm   | 14mm   | 10   | AM-50-KL     | 9   | ★ N623333-S101  |
| M8           | 25mm   | 14mm   | 10   | AM-50-KB     | 9   | N623333-S426    |
| M8           | 25mm   | 14mm   | 10   | AM-50-KP     | 9   | N800296-S301    |
| M8           | 25mm   | 14mm   | 10   | AM-50-KP     | 9   | N800296-S439    |
| M8           | 25mm   | 14mm   | 10   | AM-50-KP     | 9   | N800296-S441    |
| M8           | 25mm   | 14mm   | 10   | AM-50-KN     | 9   | N801731-S2      |
| M8           | 25mm   | 14mm   | 10   | AM-50-KM     | 9   | N803714-S100    |
| M8           | 25mm   | 14mm   | 10   | AM-50-KM     | 9   | N803714-S426    |
| M8           | 25mm   | 14mm   | 10   | AM-50-KA     | 9   | ★ N804132-S2    |
| M8           | 25mm   | 17mm   | 10   | 230-120      |     | N623333-S410    |
| M8           | 25.5mm | 14.7mm | 10   | AM-50-F      | 9   | ★ N800296-S☆    |
| M8           | 28mm   | 12.5mm | 10   | AM-50-JJ     | 9   | W705158-S426    |
| M8           | 28mm   | 12.5mm | 10   | AM-50-JJ     | 9   | W705158-S439    |
| M8           | 28.4mm | 12.8mm | 10   | 230-120      |     | N802461-S426    |
| M8           | 32mm   | 14mm   | 10   | AM-50-JA     | 9   | N800538-S2      |
| M8           | 32mm   | 14mm   | 10   | AM-50-J      | 9   | N800538-S100Δ   |
| M8           | 32mm   | 14mm   | 10   | AM-50-J      | 9   | N800538-S301    |
| M8           | 32.0mm | 14.2mm | 10   | 230-120      |     | N803517-S60     |

☆ Lock Type

Δ Nylon

(continued)



**PH-100      NUT and RETAINER ASSY. (Cont'd)**

| Metric Coarse Thread (Cont'd) |         |         |      |              |     |                 |
|-------------------------------|---------|---------|------|--------------|-----|-----------------|
| NOMINAL SIZE                  | A       | B       | TYPE | LOCATOR CODE | P/C | PART NUMBER     |
| M8                            | 33.8mm  | 15.8mm  | 10   | AM-50-MM     | 9   | N801665-S2☆     |
| M10                           | 33mm    | 18mm    | 10   | AM-50-NC     | 9   | N801118-S190    |
| M10                           | 33mm    | 18mm    | 10   | AM-50-C      | 9   | N801118-S426    |
| M10                           | 34.5mm  | 17.5mm  | 10   | AM-50-N      | 9   | ★N801673-S2☆    |
| M10                           | 34.5mm  | 17.5mm  | 10   | AM-50-NG     |     | N801673-S426    |
| M10                           | 34.5mm  | 23.5mm  | 10   | AM-50-NA     | 9   | N802812-S2      |
| M10                           | 35.5mm  | 25.2mm  | 10   | AM-50-NB     | 9   | ★N805397-S190   |
| M10                           | 36.5mm  | 10mm    | 10   | AM-50-L      | 10  | ★N801658-S100☆  |
| M12                           | 61.5mm  | 29.5mm  | 10   | AM-50-V      | 9   | N803334-S2      |
| M12                           | 68.5mm  | 36mm    | 10   | AM-50-R      | 9   | ★N802219-S40    |
| M12                           | 70mm    | 70mm    | 10   | AM-50-T      | 9   | W708087-S426    |
| M12                           | 74.5mm  | 75mm    | 10   | AM-50-S      | 9   | ★N802219-S2     |
| M14                           | 46.5mm  | 21.5mm  | 10   | AM-50-G      | 9   | ★N801147-S53MT☆ |
| M14                           | 62.5mm  | 21.5mm  | 10   | AM-50-H      | 9   | ★N801146-S53MT☆ |
| M8                            | —       | —       | 11   | AM-71-D      |     | N808043-S56     |
| M8                            | —       | —       | 11   | AM-71-D      |     | N808043-S439    |
| M8                            | 20.8mm  | 14.2mm  | 11   | AM-71-C      | 9   | N804016-S2      |
| M10                           | 25.5mm  | 16mm    | 11   | 290-060      |     | N811686-S428    |
| M10                           | 28.5mm  | 12mm    | 11   | 290-060      |     | ★N811481-S428   |
| M10                           | 30mm    | 15.5mm  | 11   | 290-060      |     | N807325-S2      |
| M10                           | 32mm    | 28.5mm  | 11   | AM-71-B      |     | ★N804516-S2     |
| M12                           | 39.88mm | 25.4mm  | 11   | AM-71-E      | 9   | ★N801226-S100   |
| M14                           | 52.25mm | 40.5mm  | 11   | AM-71-F      |     | ★N807472-S60    |
| M14                           | 52.25mm | 40.5mm  | 11   | AM-71-F      | —   | ★N807472-S436   |
| M4                            | 25.0mm  | 11.0mm  | 12   | AM-50-NF     | —   | ★N811195-S      |
| M5                            | 24.5mm  | 16mm    | 12   | AM-53        | 9   | ★E826128-S72    |
| M6                            | —       | —       | 12   | AM-50-Y      |     | N623332-S301    |
| M6                            |         |         | 12   | AM-63-CG     |     | ★N807850-S60    |
| M6                            | 24.0mm  | 14.5mm  | 12   | AM-63-CH     | —   | N806886-S301    |
| M6                            | 28mm    | 16mm    | 12   | AM-50-P      | 9   | ★N800324-S2     |
| M6                            | 29.5mm  | 12.5mm  | 12   | AM-63-CF     |     | ★N805906-S100   |
| M8                            | —       | —       | 12   | AM-50-X      |     | N801117-S301    |
| M10                           | 35.5mm  | 17.5mm  | 12   | AM-63-N      | 9   | N808640-S60     |
| M10                           | 46mm    | 28.5mm  | 12   | AM-63-M      |     | ★N804998-S56    |
| M12                           | 47mm    | 20mm    | 12   | AM-50-C      | 9   | ★N804166-S100   |
| M12                           | 52.0mm  | 40.0mm  | 12   | AM-50-ZA     |     | N808190-S2      |
| M12                           | 52.0mm  | 40.0mm  | 12   | AM-50-ZA     | —   | N808190-S301    |
| M12                           | 67mm    | 25mm    | 12   | AM-63-C      | 9   | ★N800393-S43B   |
| M12                           | 67mm    | 25mm    | 12   | AM-63-CC     | 9   | ★N801073-S53    |
| M12                           | 69.3mm  | 53.0mm  | 12   | AM-50-NE     | —   | ★N811127-S428   |
| M12                           | 72.3mm  | 53.0mm  | 12   | AM-50-ND     | —   | ★N811126-S428   |
| M14                           | 50.75mm | 21.5mm  | 12   | AM-63-CE     |     | N803166-S60     |
| M4.2                          | 15.85mm | 16.15mm | 13   | AM-30-B      |     | ★N807759-S2     |
| M4.2                          | 19.6mm  | 13.9mm  | 13   | AM-30-C      | —   | N802657-S100    |
| M6                            | 21.43mm | 14.29mm | 13   | AM-30-A      |     | ★E826046-S      |
| M8                            | 26.6mm  | 13.8mm  | 13   | AM-30        | 9   | ★E826009-S72    |
| M6                            | 46mm    | 23mm    | 14   | AM-36-C      |     | ★N804920-S2     |
| M8                            | 44.0mm  | 13.0mm  | 14   | AM-36-T      |     | W701651-S60     |
| M10                           | 42mm    | 24.6mm  | 14   | AM-36-E      | 9   | ★N801474-S      |
| M10                           | 42mm    | 24.6mm  | 14   | AM-36-J      | 9   | ★N801474-S8     |
| M10                           | 46mm    | 23mm    | 14   | AM-36-G      | 9   | N802641-S2      |
| M10                           | 46mm    | 23mm    | 14   | AM-36-GA     |     | ★N806137-S100   |
| M10                           | 46mm    | 23mm    | 14   | AM-50-M      |     | N807164-S426    |
| M10                           | 51.0mm  | 13.0mm  | 14   | AM-36-NA     |     | N807634-S60     |
| M10                           | 51.0mm  | 13.0mm  | 14   | AM-36-N      |     | ★N807634-S301   |
| M10                           | 59.1mm  | 30mm    | 14   | AM-36-P      |     | W704834-S436    |
| M12                           | 30mm    | 16.8mm  | 14   | AM-71-G      |     | W704644-S60     |
| M12                           | 48mm    | 30mm    | 14   | AM-36-CF     | 9   | N805007-SA      |
| M12                           | 48mm    | 30mm    | 14   | AM-36-CE     | 9   | N805007-S100    |
| M12                           | 48mm    | 12.5mm  | 14   | AM-71-GA     | 10  | W708348-S426    |
| M12                           | 49.5mm  | 30.4mm  | 14   | AM-36-CH     | —   | N807778-S60     |
| M12                           | 49.5mm  | 30.4mm  | 14   | AM-36-CH     | —   | ★N807778-S436   |

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## PH-100 NUT and RETAINER ASSY. (Cont'd)

### Metric Coarse Thread (Cont'd)

| NOMINAL SIZE | A       | B       | TYPE | LOCATOR CODE | P/C  | PART NUMBER    |
|--------------|---------|---------|------|--------------|------|----------------|
| M12          | 59.5mm  | 29mm    | 14   | AM-36-A      |      | ★ N804410-S150 |
| M12          | 60mm    | 20mm    | 14   | AM-36-H      | 9    | ★ N802943-S150 |
| M12          | 61mm    | 26mm    | 14   | AM-71-AA     | —    | N806502-S426   |
| M12          | 61mm    | 26.6mm  | 14   | AM-36-M      |      | ★ N806502-S2   |
| M12          | 61mm    | 26.6mm  | 14   | AM-36-NA     | 10   | N808869-S60    |
| M12          | 61mm    | 26.6mm  | 14   | AM-36-N      | 10   | N808869-S427   |
| M12          | 61mm    | 26.6mm  | 14   | AM-36-N      | —    | ★ N808869-S428 |
| M12          | 91mm    | 35mm    | 14   | AM-36-S      |      | ★ N806559-S150 |
| M14          | —       | 12mm    | 14   | AM-36-Z      | 10   | W707471-S436   |
| M14          | 35mm    | 22.6mm  | 14   | AM-71-ED     |      | ★ N808943-S428 |
| M14          | 50mm    |         | 14   | AM-36-BA     | 10   | ★ N805440-S150 |
| M14          | 65.0mm  | —       | 14   | AM-36-BC     | —    | N805408-S60    |
| M14          | 65.0mm  | —       | 14   | AM-36-BC     | —    | ★ N805408-S301 |
| M14          | 65.0mm  | —       | 14   | AM-36-BB     | —    | N805408-S427   |
| M14          | 65mm    | 14mm    | 14   | AM-36-B      |      | ★ N804415-S150 |
| M14          | 80mm    |         | 14   | AM-36-BB     | 10   | ★ N805408-S150 |
| M20          | 100mm   | 48mm    | 14   | AM-36-L      | 10   | N805161-S56    |
| M10          | 44mm    | 16mm    | 15   | AM-63-G      | 9    | ★ N801312-S2☆  |
| M10          | 51mm    | 16mm    | 15   | AM-63-A      | 10   | ★ N804004-S160 |
| M10          | 55mm    | 16mm    | 15   | AM-63-F      | 9    | N802060-S100   |
| M10          | 55mm    | 16mm    | 15   | AM-63-F      | 9    | N802060-S426   |
| M10          | 58.5mm  | 29mm    | 15   | AM-150-B     |      | N804517-S150   |
| M10          | 77mm    | 13mm    | 15   | AM-63-D      | 9    | ★ N801669-S2☆  |
| M12          | 71mm    | 13mm    | 15   | AM-63-L      | 9    | ★ N802532-S2   |
| M12          | 71mm    | 13mm    | 15   | AM-63-K      | 9    | ★ N803042-S100 |
| M12          | 75mm    | 13mm    | 15   | AM-63-E      | 9    | N800325-S2     |
| M12          | 76mm    | 13mm    | 15   | AM-63-J      | 9    | ★ N802265-S2   |
| M14          | 75mm    | 13mm    | 15   | AM-63-H      | 9    | ★ N801683-S2☆  |
| M8           | 57.5mm  | 14mm    | 16   | AM-64-C      | 9    | ★ N801355-S2   |
| M8           | 60.5mm  | 14mm    | 16   | AM-64-F      | 9    | N803303-S2     |
| M10          | 48mm    | 16mm    | 16   | AM-64-G      | 9    | ★ N800941-S100 |
| M10          | 55mm    | 16mm    | 16   | AM-64-E      | 9    | ★ N800478-S100 |
| M10          | 62mm    | 16mm    | 17   | MM-202       | 9    | ★ N801974-S2   |
| M10          | 62.5mm  | 16.2mm  | 17   | AM-150-A     | 9    | ★ N802642-S160 |
| M10          | 62.5mm  | 16.2mm  | 17   | AM-150       | 10   | ★ N803187-S160 |
| M4.2         | 19.2mm  | 11.6mm  | 18   | AM-66-AW     |      | W707348-S301   |
| M4.2         | 19.3mm  | 13.5mm  | 18   | AM-66-H      | 9    | N802538-S100†  |
| M4.2         | 19.3mm  | 13.5mm  | 18   | AM-66-G      | 9    | N802539-S100*  |
| M4.2         | 20.25mm | 14.20mm | 18   | AM-66-A      | —    | W704277-S301   |
| M4.2         | 20.25mm | 14.20mm | 18   | AM-66-A      | —    | W704277-S438   |
| M4.2         | 20.25mm | 14.20mm | 18   | AM-66-A      | —    | W704277-S441   |
| M10          | 39mm    | 23.4mm  | 18   | AM-66-B      | 10   | W707640-S301   |
| M4.2         | 22mm    | 19mm    | 19   | AM-66-AN     | 9    | N806399-S424   |
| M12          | 19.7mm  | 38mm    | 19   | AM-66-AM     | 10   | W707282-S436   |
| M12          | 23.75mm | 29.5mm  | 19   | AM-66-B      | 10   | W710436-S900   |
| M12          | 34mm    | 32mm    | 19   | AM-66-AZ     |      | W706348-S426   |
| M14          | 25mm    | 37mm    | 19   | AM-50-UA     | 10   | W705543-S436   |
| M14          | 25mm    | 37mm    | 19   | AM-50-UA     | 10   | W705543-S900   |
| M14          | 30mm    | 45mm    | 19   | AM-50-T      | 10   | ★ W710021-S900 |
| M14          | 40.0mm  | 14.5mm  | 19   | AM-71-EE     | 10   | W710022-S900   |
| M14          | 50mm    | 30mm    | 19   | AM-66-AQ     | 9    | W706333-S436   |
| M14          | 50mm    | 32mm    | 19   | AM-66-AM     | 9    | N806368-S427   |
| M14          | 54mm    | 13mm    | 19   | AM-50-D      | —    | ★ N804052-S437 |
| M14          | 62mm    | 32mm    | 19   | AM-50-W      | 9    | ★ N802822-S2   |
| M16          | 33mm    | 42mm    | 19   | AM-50-ZB     | 10   | W708900-S427   |
| M16          | 66.3mm  | 32.0mm  | 19   | AM-50-Z      |      | N806367-S60    |
| M18          | 60mm    | 38mm    | 19   | AM-66-AY     |      | W707678-S436   |
| M10          | 55mm    | 26mm    | 20   | AM-59-G      | 10.9 | N807596-S60    |
| M12          | 69.3mm  | 36.0mm  | 20   | AM-59-AA     |      | W707147-S436   |
| M14          | 47mm    | 30mm    | 20   | AM-59-A      | 9    | ★ N800187-S    |
| M14          | 56.5mm  | 38.1mm  | 20   | AM-59-C      | 9    | N805270-S56    |
| M14          | 65.0mm  | 30.0mm  | 20   | AM-63-P      |      | ★ N802819-S60  |

☆ Lock Type

\* Silver

† Green

(continued)

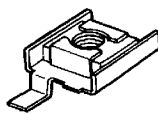
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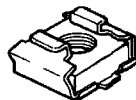
| PH-100 NUT and RETAINER ASSY. (Cont'd) |          |         |      |              |      |                |
|--|----------|---------|------|--------------|------|----------------|
| Metric Coarse Thread (Cont'd)          |          |         |      |              |      |                |
| NOMINAL SIZE                           | A        | B       | TYPE | LOCATOR CODE | P/C  | PART NUMBER    |
| M10                                    | 77.5mm   | 32mm    | 21   | AM-69-M      | 9    | ★ N802610-S2   |
| M10                                    | 77.5mm   | 36mm    | 21   | AM-69-N      | 9    | ★ N803452-S2   |
| M12                                    | 87mm     | 40mm    | 21   | AM-70-A      | 9    | ★ N802397-S2   |
| M10                                    | 100mm    | 30mm    | 22   | AM-70-F      | 9    | ★ N803132-S150 |
| M10                                    | 110mm    | 30mm    | 22   | AM-70-E      | 9    | ★ N803302-S150 |
| M8                                     | 62.5mm   | 20.5mm  | 23   | AM-70-JD     |      | N808384-S428   |
| M8                                     | 66mm     | 24mm    | 23   | AM-70-JC     |      | N811411-S301   |
| M8                                     | 149mm    | 23.7mm  | 23   | AM-70-HM     |      | N806770-S2     |
| M10                                    | 121.5mm  | 25mm    | 23   | AM-70-J      |      | ★ N803315-S2   |
| M12                                    | 68.4mm   | 26.5mm  | 23   | AM-70-K      | 10   | W710065-S439   |
| M12                                    | 80mm     | 31.8mm  | 23   | AM-70-JA     | 10   | N805136-S56    |
| M12                                    | 127mm    | 31.8mm  | 23   | AM-70-JB     | 10   | N805135-S56    |
| M14                                    | 93.25mm  | 45.0mm  | 23   | AM-70-HM     | 23   | W706399-S427   |
| M14                                    | 108.25mm | 45.0mm  | 23   | AM-70-HN     | 14.5 | N811366-S427   |
| M14                                    | 162.7mm  | 31.8mm  | 23   | AM-70-HN     | 10   | N811835-S436   |
| M16                                    | 165.9mm  | 37.0mm  | 23   | AM-70-M      | 10   | W710008-S439   |
| M18                                    | 101.6mm  | 34.3mm  | 23   | AM-70-HP     | 10   | W709318-S427   |
| M18                                    | 109.0mm  | 45mm    | 23   | AM-70-HM     | 10   | ★ W707796-S427 |
| M12                                    | 38.28mm  | —       | 24   | AM-70-LA     | 10   | W709286-S436   |
| M14                                    | 45mm     | 32mm    | 24   | AM-70-L      |      | ★ N803672-S150 |
| M6.2                                   | 19mm     | 12mm    | 25   | AM-71-A      | —    | N802650-S32    |
| M6.2                                   | 19mm     | 12mm    | 25   | AM-71-A      |      | N802650-S100   |
| M12                                    | 48mm     | 32mm    | 26   | AM-74        |      | ★ N803208-S2   |
| M10                                    | 75mm     | 19mm    | 27   | AM-79        |      | N804112-S      |
| M10                                    | 102.4mm  | 32.4mm  | 27   | AM-79-A      | 14.5 | N808992-S301   |
| M10                                    | 32.8mm   | 24mm    | 28   | AM-79-K      | 9    | ★ N805593-S2   |
| M12                                    | 40mm     | 30mm    | 28   | AM-79-B      | 9    | ★ N805448-S60  |
| M10                                    | 62mm     | 24mm    | 29   | AM-92-E      | 9    | ★ N805504-S150 |
| M8                                     | 109.5mm  | 25.8mm  | 30   | AM-92-K      |      | N806929-S2     |
| M8                                     | 119.5mm  | 25.8mm  | 30   | AM-92-L      |      | ★ N807486-S2   |
| M10                                    | 46.5mm   | 63mm    | 31   | AM-92-M      |      | ★ N805443-S36  |
| M4.2                                   | 12.5mm   | 11mm    | 32   | AM-92-N      |      | ★ W700892-S300 |
| M16                                    | 199mm    | 40mm    | 33   | AM-92-J      | 10   | W707934-S426   |
| M16                                    | 37mm     | —       | 34   | AM-93-A      | —    | W708248-S900   |
| M16                                    | 131mm    | 13.9mm  | 35   | AM-94-A      | 10   | W708360-S426   |
| M16                                    | 131mm    | 13.9mm  | 35   | AM-94-A      | 10   | W708360-S441   |
| M10                                    | 25mm     | 12.5mm  | 36   | AM-95-B      | 10   | ★ W709303-S436 |
| M10                                    | 29.9mm   | 3.6mm   | 36   | AM-95-C      | 8    | W710153-S440   |
| M12                                    | 30mm     | 16.8mm  | 36   | AM-95-B      | 10   | W701641-S60    |
| M14                                    | 38mm     | 20mm    | 36   | AM-95-A      | 10   | N811833-S436   |
| M16                                    | 60mm     | 24.25mm | 38   | AM-95-R      | 10   | W711253-S441   |

PH-99

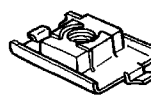
NUT and RETAINER ASSY.



TYPE 1



TYPE 2



TYPE 3



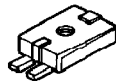
TYPE 4



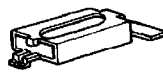
TYPE 5



TYPE 6



TYPE 7



TYPE 8



TYPE 9



TYPE 10



TYPE 11



TYPE 12

PH99

## National Coarse Thread

| DIAMETER | THREAD | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|------|--------------|-------|-------------|
| 5/16"    | 18     | 1    | MM-205       | 5     | ★359613-S2  |
| No. 8    | 32     | 2    | MM-205-F     | 2     | ★379274-S8  |
| 1/4"     | 20     | 2    | MM-206       | 2     | ★357227-S   |
| 1/4"     | 20     | 2    | MM-205-X     | 5     | ★357314-S2  |
| 5/16"    | 18     | 2    | MM-206-A     | 2     | ★356833-S2  |
| 3/8"     | 16     | 2    | MM-207-AE    | 5     | ★382329-S2  |
| 7/16"    | 14     | 2    | MM-207-AG    | 5     | ★387912-S2  |
| 5/16"    | 18     | 3    | MM-207-A     | 5     | ★379484-S2  |
| 5/16"    | 18     | 3    | MM-207-AR    | 5     | ★388637-S   |
| 7/16"    | 14     | 8    | MM-207-AK    | 5     | ★385139-S2  |
| 5/16"    | 18     | 9    | MM-207-AN    | 5     | ★384669-S   |
| 5/16"    | 18     | 9    | MM-207-AP    | 5     | ★384669-S2  |
| 3/8"     | 16     | 12   | MM-207-BA    | 8     | ★389496-S2  |

## Special Thread

| DIAMETER | THREAD | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|------|--------------|-------|-------------|
| No. 10   | 16     | 5    | MM-207-C     | 2     | ★379547-S2  |

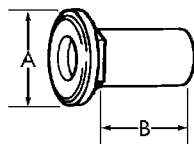
## Metric Coarse Thread

| NOMINAL SIZE | THREAD | TYPE | LOCATOR CODE | P/C  | PART NUMBER   |
|--------------|--------|------|--------------|------|---------------|
| M5           | 0.8mm  | 1    | AM-51-D      |      | ★E826125-S72  |
| M6           |        | 2    | AM-51-F      |      | ★E826160-S    |
| M6           | —      | 2    | AM-51-F      | —    | E826160-S76   |
| M6           | 1mm    | 2    | AM-51-E      | 9    | ★N800465-S2   |
| M8           | 1.25mm | 2    | AM-51-C      |      | ★E826013-S72  |
| M8           | 1.25mm | 2    | AM-51-CA     |      | ★E826082-S100 |
| M6           | 1.0mm  | 3    | AM-55        | 9    | ★E826051-S72  |
| M6           | 1.0mm  | 3    | AM-55-B      | 8    | ★E826168-S72  |
| M6           | 1.0mm  | 3    | AM-55-A      | 9    | ★E826051-S72M |
| M8           | 1.25mm | 9    | AM-94-E      | 9    | N800428-S     |
| M14          | 2mm    | 10   | AM-95-E      | 10   | ★N800434-S100 |
| M14          | 2mm    | 10   | AM-95-EA     | 10.9 | ★N800434-S151 |
| M8           | 1.25mm | 11   | AM-96-FF     | 9    | N803802-S436  |
| M10          | 1.5mm  | 11   | AM-96-A      |      | ★N802598-S100 |
| M10          | 1.5mm  | 11   | AM-96-B      |      | ★N804517-S2   |
| M10          | 1.5mm  | 11   | AM-96-BB     | 10   | ★N808843-S436 |
| M14          | 2mm    | 11   | AM-96-E      | 9    | ★N801701-S100 |
| M14          | 2mm    | 11   | AM-96-F      | 9    | ★N802221-S2   |
| M8           | 1.25mm | 12   | AM-97-A      |      | ★N804314-S100 |
| M12          | 1.75mm | 12   | AM-97        | 10   | ★N801573-S100 |

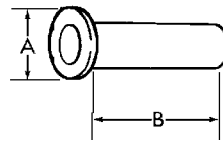
# Standard and Utility Parts Catalog

PH-222

NUT — ROUND HEAD — RIVET TYPE



TYPE 1



TYPE 2

PH222

| DIAMETER | THREAD | A      | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
|----------|--------|--------|--------|------|--------------|-------|--------------|
| No. 8    | 32     | 3/8"   | 11/32" | 1    | MM-119-W     | 5     | ★388187-S36  |
| No. 8    | 32     | 3/8"   | 7/16"  | 1    | MM-119-X     | 5     | ★382167-S36  |
| No. 10   | 24     | 13/32" | 17/32" | 1    | MM-120-A     | 5     | ★379556-S36  |
| 1/4"     | 20     | 15/32" | 1/2"   | 1    | MM-120-BF    | 5     | 376903-S40   |
| 1/4"     | 20     | 15/32" | 3/4"   | 1    | MM-120-BH    | 5     | ★387134-S100 |
| 1/4"     | 20     | 31/64" | 3/4"   | 1    | MM-120-BK    | 5     | 386941-S36   |
| 5/16"    | 18     | 19/32" | 5/8"   | 1    | MM-120-CE    | 5     | ★376656-S36  |
| 5/16"    | 18     | 21/32" | 3/4"   | 1    | MM-120-C     | 5     | ★374301-S37  |
| 5/16"    | 18     | 11/16" | 57/64" | 1    | II-120-G     | 5     | ★387734-S2   |
| 3/8"     | 16     | 11/16" | 13/16" | 1    | MM-120-B     | 5     | 375474-S8    |
| 3/8"     | 16     | 25/32" | 1-1/8" | 1    | MM-119-G     | 5     | ★386859-S2   |
| 3/8"     | 24     | 25/32" | 7/8"   | 1    | MM-119       | 2     | ★351633-S8   |
| 1/4"     | 20     | 5/8"   | 1"     | 2    | MM-121-DK    | Alum. | ★388793-SΔ   |
| 1/4"     | 20     | 5/8"   | 1"     | 2    | MM-121-DL    | Steel | ★390364-S8   |

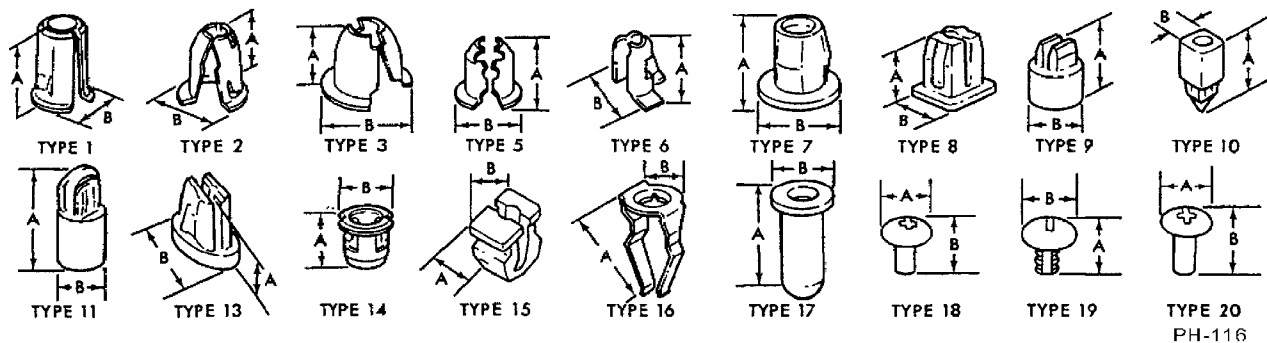
Metric

| DIAMETER | THREAD | A       | B       | TYPE | LOCATOR CODE | P/C | PART NUMBER   |
|----------|--------|---------|---------|------|--------------|-----|---------------|
| M6       |        | 12.2mm  | 12.1mm  | 1    | AM-124-E     |     | N803763-S100■ |
| M6       |        | 13.08mm | 15.75mm | 1    | AM-124-F     |     | N808170-S36   |
| M4       |        | 9.0mm   | 10.7mm  | 2    | AM-125-AA    |     | ★U800884-S72  |
| M5       |        | 11mm    | 14.5mm  | 2    | AM-125-B     |     | ★N804790-S36  |
| M5       |        | 13.4mm  | 10mm    | 2    | AM-125-A     |     | ★N804422-S36M |
| M5       |        | 9.12mm  | 13.86mm | 2    | AM-125-C     |     | ★N805411-S36  |
| M8       |        | 16.8mm  | 10mm    | 2    | AM-125       | 9   | ★N801885-S2   |

Δ Aluminum

■ Sealer

## PH-116 NUT — SLEEVE — SPEED TYPE



PH-116

| DIAMETER    | A        | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
|-------------|----------|--------|------|--------------|-------|--------------|
| No. 8       | 11/32"   | 3/16"  | 1    | MM-220-GH    | 5     | ★385996-S100 |
| 1/8"        | 1/4"     | 15/64" | 1    | MM-221       | 2     | ★355891-S2   |
| 3/32"       | 3/16"    | 11/64" | 2    | MM-228       | 5     | ★378362-S102 |
| 3/32"       | 3/16"    | 11/64" | 2    | MM-228-AA    | 5     | ★378379-S102 |
| 1/8"        | 1/4"     | 9/32"  | 2    | MM-222-B     | 5     | ★380930-S2   |
| 1/8"        | 15/64"   | 9/32"  | 2    | MM-222-A     | 5     | 375890-S102■ |
| 1/8"        | 9/32"    | 1/4"   | 2    | MM-222       | 5     | ★353577-S2   |
| 3/16"       | 19/64"   | 3/8"   | 2    | MM-222-E     | 5     | 375480-S102  |
| 3/16"       | 25/32"   | 3/8"   | 2    | MM-223-H     | 5     | ★385024-S2   |
| 1/4"        | 15/32"   | 25/64" | 2    | MM-223       | 5     | ★354341-S2   |
| 9/64"       | 1/4"     | 1/4"   | 3    | MM-225       | 5     | ★358668-S2   |
| 1/8"        | 1/4"     | 1/4"   | 5    | MM-227       | 5     | ★373528-S32  |
| 3/16"       | 5/16"    | 1/4"   | 5    | MM-357-E     | 5     | ★387215-S2   |
| 3/16"       | 1/2"     | 3/8"   | 5    | MM-227-D     | 5     | ★381635-S2   |
| 5/16"       | 1/4"     | 5/16"  | 5    | MM-227-E     | 5     | ★384688-S2   |
| 1/8"        | 11/64"   | 17/32" | 6    | MM-221-C     | 2     | ★370030-S2   |
| 1/8"        | 9/32"    | 1/4"   | 7    | MM-222-AB    | —     | ★385417-SΔ   |
| No. 10      | 11/16"   | 5/8"   | 7    | MM-222-AC    | —     | 390892-S     |
| No. 8 or 10 | 21/64"   | 3/8"   | 8    | MM-216-N     | —     | ★376309-SΔ   |
| No. 8 or 10 | 13/32"   | 3/8"   | 8    | MM-216-PA    | —     | 383356-SΔ    |
| No. 8 or 10 | 13/32"   | 3/8"   | 8    | MM-216-PB    | —     | 379830-SΔ    |
| No. 8 or 10 | 13/32"   | 3/8"   | 8    | MM-359-E     | —     | ★386122-SΔ   |
| No. 8       | 9/32"    | 7/16"  | 8    | MM-216-NN    | —     | ★385581-SΔ   |
| No. 10      | 13/32"   | 3/8"   | 8    | MM-216-P     | —     | ★381974-SΔ   |
| 1/4"        | 13/32"   | 5/8"   | 8    | MM-228-B     | —     | 380707-SΔ    |
| 17/64"      | 15/32"   | 9/32"  | 8    | MM-216-PC    | —     | 389360-SΔ    |
| 5/16"       | 3/8"     | 9/16"  | 8    | MM-228-BA    | —     | ★375995-SΔ   |
| No. 8 or 10 | 1-19/64" | 3/8"   | 9    | MM-228-CA    | —     | 382735-SΔ    |
| No. 8 or 10 | 1-3/64"  | 25/64" | 10   | MM-228-F     | —     | 380442-SΔ    |
| No. 8       | 13/16"   | 3/8"   | 11   | MM-228-FA    | —     | ★384997-SΔ   |
| 1/4"        | 15/32"   | 9/16"  | 13   | MM-228-P     | —     | ★380344-SΔ   |
| 3/16"       | 1-27/32" | 9/16"  | 16   | MM-236-F     | 5     | ★388550-S100 |
| 7/16"       | 1-1/8"   | 19/32" | 16   | MM-236-E     | 5     | ★388261-S    |

Δ Aluminum

■ Sealer

(continued)

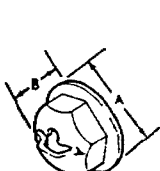
# Standard and Utility Parts Catalog

PH-116      NUT — SLEEVE — SPEED TYPE (Cont'd)

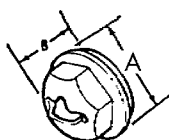
| Metric          |         |         |      |              |     |               |
|-----------------|---------|---------|------|--------------|-----|---------------|
| DIAMETER        | A       | B       | TYPE | LOCATOR CODE | P/C | PART NUMBER   |
| M3              | 6.6mm   | 9.1mm   | 1    | AM-14-J      | 9   | ★N806270-S    |
| M4.2            | 10mm    | 8.6mm   | 1    | AM-14-L      |     | ★N801491-S2   |
| M4              | 14mm    | 14mm    | 7    | AI-4-A       |     | ★N806760-S190 |
| M4.2            |         | 32      | 7    | AM-15-P      |     | ★N808422-S307 |
| M6.6            | 9.4mm   | 8.6mm   | 7    | AI-6         | —   | ★E857001-SΔ   |
| M8              | 49.5mm  | 25mm    | 7    | AI-8-P       | —   | ★N806422-SΔ   |
| M8              | 49.8mm  | 25mm    | 7    | AI-8-PA      | —   | ★N806626-SΔ   |
| M3              | 6.6mm   | 9.6mm   | 8    | AM-15I       | —   | N802376-S     |
| M3              | 8mm     | 9mm     | 8    | AM-15-G      | —   | ★E826279-S    |
| M4              | 7mm     | 14mm    | 8    | AM-15-B      | —   | ★E826110-SΔ   |
|                 |         |         | 8    | AM-15-E      | —   | ★114301-ESΔ   |
| M4.2            | 7.3mm   | 9.6mm   | 8    | AM-15-R      | —   | W704877-S300  |
| M4.2            | 10.4mm  | 9.6mm   | 8    | AM-15-LC     | —   | ★N806334-SΔ   |
| M4.2            | 11.5mm  | 9.6mm   | 8    | AM-15-L      | —   | ★N803998-S    |
| M4.8            | 16.7mm  | 12.7mm  | 8    | AM-15-H      | —   | ★E826218-S    |
| M6              | 11mm    | 16mm    | 8    | AM-15-K      | —   | N801706-S     |
| No. 6 or 8      | 8.52mm  | 9mm     | 8    | AM-15-BA     | —   | ★E826097-S    |
| No. 6 or 8      | 11.25mm | 9.65mm  | 8    | AM-15-D      | —   | ★E826005-SΔ   |
| No. 8           | 12mm    | 16mm    | 8    | AM-15-J      | —   | ★E826280-SΔ   |
| No. 8           | 12mm    | 16mm    | 8    | AM-15-L      | —   | E826292-SΔ    |
| No. 8           | 14.2mm  | 16mm    | 8    | AM-15-M      | —   | ★E826231-SΔ   |
| M5              | 12.5mm  | 20mm    | 9    | AM-35        |     | ★E826163-S    |
| M4.2            | 8.3mm   | 24.6mm  | 13   | AM-21-G      | —   | N800841-SΔ    |
| M4.2 or<br>M4.5 | 10mm    | 12.7mm  | 13   | AM-21-A      | —   | N800503-SΔ    |
| M4.2            | 13.26mm | 24.6mm  | 13   | AM-21-GM     | —   | N806577-SΔ    |
| M4.2            | 13.26mm | 24.6mm  | 13   | AM-21-GM     | —   | N806577-S100  |
| M4.2            | 15mm    | 14mm    | 13   | AM-21-C      | —   | ★N804615-S    |
| M4              | 14.8mm  | 14.1mm  | 14   | AM-21-EB     | —   | N806624-S191  |
| M4.2            | 18.7mm  | 9.2mm   | 14   | AM-21-EA     |     | N805274-SΔ    |
| M5              | 3.66mm  | 4.5mm   | 14   | AM-15-N      |     | ★N806174-S2   |
| M5              | 12.7mm  | 12.7mm  | 14   | AM-21-E      |     | ★E826032-S72  |
| M6              | 10mm    | 12.8mm  | 14   | AM-80-E      | 10  | ★E826090-S72  |
| M6              | 15.88mm | 15.88mm | 14   | AM-23-E      |     | ★E826099-S    |
| M6.4            | 9mm     | 7.92mm  | 14   | AM-21-B      |     | ★E464005-S    |
| M12             | 10.8mm  |         | 14   | AM-23-D      |     | ★E864126-S    |
| M6              | 12mm    | 12mm    | 15   | AM-22-E      |     | ★E826212-S    |
| M10             | 10.6mm  | 9.5mm   | 15   | AM-22-A      |     | ★E826226-S    |
| M4.8            | 11.8mm  | 4.8mm   | 16   | AM-23-A      |     | W705519-S430  |
| M2.5            | 2.5mm   | 6.2mm   | 17   | AM-28-E      |     | ★E852035-S    |
| M2.9            | 12.5mm  | 6.2mm   | 17   | AM-28-B      |     | ★E866073-S    |
| M10.5           | 25mm    | 15mm    | 18   | AM-126       |     | ★N804413-S    |
| M8              | 34mm    | 20mm    | 19   | AM-127       |     | N804935-S     |
| M6              | 16.7mm  | 25.5mm  | 20   | AM-128-E     |     | ★N800575-S100 |

Δ Aluminum

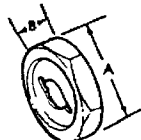
## PH-128 NUT — SELF-THREADING



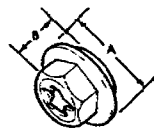
TYPE 1



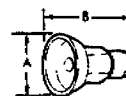
TYPE 2



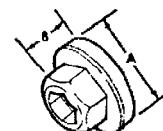
TYPE 3



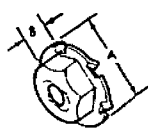
TYPE 4



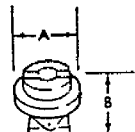
TYPE 5



TYPE 6



TYPE 8



TYPE 9

PH-128  
12/19/2002

| DIAMETER | A       | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
|----------|---------|--------|------|--------------|-------|--------------|
| 1/8"     | 1/2"    | 1/4"   | 1    | MM-284-W     | 5     | ★371583-S7   |
| 5/32"    | 9/16"   | 7/32"  | 1    | MM-284-Y     | 5     | ★384413-S    |
| 5/32"    | 9/16"   | 21/64" | 1    | MM-284-Z     | 5     | ★374566-S100 |
| 1/4"     | 11/16"  | 1/4"   | 1    | MM-286       | 5     | ★371024-S7   |
| 1/4"     | 11/16"  | 5/16"  | 1    | MM-286-C     | 5     | ★387098-S2   |
| 3/8"     | 11/16"  | 9/32"  | 1    | MM-286-F     | 5     | 385165-S2    |
| 5/8"     | 1-5/16" | 1"     | 1    | MM-286-H     | 5     | 386121-S2    |
| 5/32"    | 11/16"  | 23/64" | 2    | MM-284-X     | 5     | ★382110-S100 |
| 1/4"     | 11/16"  | 1/4"   | 2    | MM-287       | 5     | ★371882-S7   |
| 5/16"    | 3/4"    | 9/32"  | 2    | MM-353-E     | 5     | 355230-S36   |
| 5/32"    | 11/32"  | 7/64"  | 3    | MM-288-DB    | 5     | ★378205-S35  |
| 1/8"     | 7/16"   | 1/4"   | 4    | MM-290       | 5     | ★373888-S7-8 |
| 5/32"    | 9/16"   | 5/16"  | 4    | MM-288-DC    | 5     | ★384273-S100 |
| 3/16"    | 9/16"   | 11/32" | 4    | MM-290-A     | 5     | ★385541-S100 |
| No. 10   | 11/16"  | 15/16" | 5    | MM-290-D     | 5     | ★375690-S    |
| 1/8"     | 17/32"  | 3/4"   | 5    | MM-290-E     | 5     | ★382146-S100 |
| 3/16"    | 5/8"    | 7/32"  | 8    | MM-290-RA    | 5     | ★387904-S2   |
| No. 8    | 1-1/4"  | 1/4"   | 8    | MM-290-RB    | 5     | ★389106-S2   |

### Metric

| DIAMETER | A       | B      | TYPE | LOCATOR CODE | P/C | PART NUMBER    |
|----------|---------|--------|------|--------------|-----|----------------|
| M4       | 5.9mm   | 12mm   | 1    | AM-65-CA     |     | W706541-S309   |
| M5       | 15.00mm | 5.65mm | 1    | AM-65-AA     |     | W707501-S301   |
| M5       | 15mm    | 5.85mm | 1    | AM-65-C      | 9   | ★N802941-S36   |
| M6       | 21mm    | 2.75mm | 1    | AM-65-CC     |     | ★W705867-S301  |
| M8       | 19mm    | 7mm    | 1    | AM-65-BB     | 9   | ★N800335-S100  |
| M8       | 19mm    | 7.4mm  | 1    | AM-65-G      | 9   | ★E826130-S71   |
| M5       | 15mm    | 6.08mm | 2    | AM-65-CG     | —   | N623401-S36    |
| M5       | 15mm    | 6.08mm | 2    | AM-65-CF     | —   | N623401-S301   |
| M5       | 15mm    | 6.08mm | 2    | AM-65-CE     | —   | N623401-S309   |
| M5       |         |        | 3    | MM-288-DE    | 9   | ★N800834-S36M  |
| M10      | 25.4mm  | 5.18mm | 3    | AM-69-R      | 9   | N801503-S2     |
| M4       | 15mm    | 9mm    | 4    | AM-69-K      | 9   | ★N623421-S36   |
| M5       | 18mm    | 8.6mm  | 4    | AM-69-E      | 9   | ★N623422-S36   |
| M6       | 39.5mm  | 12.0mm | 4    | AM-69-FB     | —   | N804109-S309   |
| M5       | 16mm    | 17.8mm | 5    | AM-69-FA     | 5   | N804963-S100■  |
| M6       | 18mm    | 7mm    | 5    | AM-69-F      | 5   | ★N623423-S36M■ |
| M6       | 18mm    | 7mm    | 5    | AM-69-F      | 5   | N623423-S307   |
| M3.2     | 14mm    | 5.57mm | 6    | AM-69-GB     | 9   | N623420-S36M■  |
| M4       | 10.4mm  | 7.6mm  | 6    | AM-69-H      | 9   | N800623-S101■  |
| M4       | 14mm    | 6mm    | 6    | AM-69-G      | 5   | N620370-S36M■  |
| M4       | 14mm    | 6mm    | 6    | AM-69-GE     | 5   | W520111-S      |
| M4       | 17mm    | 6mm    | 6    | AM-69-GC     | 5   | N620371-S36■   |
| M4       | 17mm    | 6mm    | 6    | AM-69-GA     | 5   | N620371-S36M■  |
| M4       | 17mm    | 6mm    | 6    | AM-69-GP     | 5   | N620371-S100   |
| M4       | 17mm    | 6mm    | 6    | AM-65-GD     | 5   | W520112-S309   |
| M4       | 17mm    | 6mm    | 6    | AM-65-GD     | 5   | W520112-S427   |

■ With Seal

(continued)



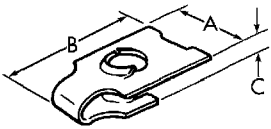
# Standard and Utility Parts Catalog

## PH-128 NUT — SELF-THREADING (Cont'd)

| Metric (Cont'd) |        |        |      |              |       |               |
|-----------------|--------|--------|------|--------------|-------|---------------|
| DIAMETER        | A      | B      | TYPE | LOCATOR CODE | P/C   | PART NUMBER   |
| M4              | 17mm   | 6mm    | 6    | AM-65-GD     | 5     | W520112-S437  |
| M4              | 17mm   | 6mm    | 6    | AM-65-GD     | 5     | W520112-S439  |
| M4              | 17mm   | 6mm    | 6    | AM-65-GD     | 5     | W520112-S440  |
| M4              | 17mm   | 6mm    | 6    | AM-65-GF     | 5     | W520113-S309  |
| M5              | 12.2mm | 5.97mm | 6    | AM-69-GN     | 5     | N811821-S100  |
| M6              | 22mm   | 8mm    | 6    | AM-69-GM     | 6     | ★ N620373-S36 |
| M8              | 17mm   | 6mm    | 6    | AM-65-GF     | 5     | W520113-S301  |
| M8              | 17mm   | 6mm    | 6    | AM-65-GF     | 5     | W520113-S426  |
| M8              | 17mm   | 6mm    | 6    | AM-65-GF     | 5     | W520113-S427  |
| M8              | 17mm   | 6mm    | 6    | AM-65-GF     | 5     | W520113-S436  |
| M8              | 20mm   | 7.85mm | 6    | AM-65-K      |       | W704350-S301  |
| M5              | 15mm   | 5mm    | 8    | AM-69-D      |       | W706675-S301  |
| M5              | 15mm   | 5mm    | 8    | AM-69-C      |       | W706675-S309  |
| M5              | 15mm   | 5.75mm | 8    | AM-69-B      | 8     | N800488-S100  |
| M8              | 25.4mm | 8.2mm  | 8    | AM-69-A      | 9     | ★ N801970-S2  |
| M8              | 25.4mm | 8.2mm  | 8    | AM-69-A      | 9     | N801970-S100  |
| M4              | 12mm   | 9mm    | 9    | AM-82        | Nylon | ★ E826220-S   |

■ With Seal

## PH-124 NUT — SPRING — “J” SHAPE

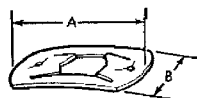


PH124

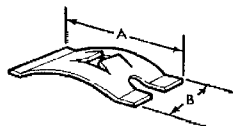
| DIAMETER | THREAD | A      | B       | C     | LOCATOR CODE | GRADE | PART NUMBER   |
|----------|--------|--------|---------|-------|--------------|-------|---------------|
| No. 8    | 15     | 7/16"  | 5/8"    | 7/64" | MM-248       | 5     | 382150-S      |
| No. 8    | 18     | 7/16"  | 43/64"  | —     | MM-248-B     | —     | ★ 382163-S2   |
| No. 8    | 18     | 13/32" | 11/16"  |       | MM-248-A     | 5     | ★ 381924-S2   |
| No. 10   | 12     | 1/2"   | 9/16"   | 1/16" | MM-250       | 5     | ★ 357033-S32  |
| 1/4"     | 12     | 1"     | 5/8"    | 1/16" | MM-253-C     | 5     | ★ 117586-ES32 |
| 1/4"     | 14     | 9/16"  | 1-1/16" | 3/8"  | MM-258       | 5     | ★ 373530-S2   |

| Metric   |      |         |         |        |              |       |                |
|----------|------|---------|---------|--------|--------------|-------|----------------|
| DIAMETER | TYPE | A       | B       | C      | LOCATOR CODE | GRADE | PART NUMBER    |
| M4.2     | 8    | 3.8mm   | 20.25mm |        | MM-258-C     | 4     | N802539-S101   |
| M4.2     | 8    | 15.24mm | 21.34mm | 2.54mm | MM-259-A     | 5     | N807424-S32    |
| M6       | 8    | 24mm    | 12mm    |        | MM-258-C     | 5     | N811606-S309   |
| M10      | —    | 28mm    | 55mm    | 2.5mm  | MM-258-D     | 10    | ★ N808958-S190 |

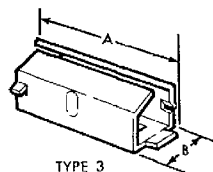
## PH-123 NUT — SPRING — PUSH ON TYPE



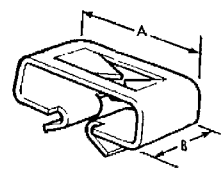
TYPE 1



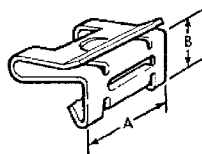
TYPE 2



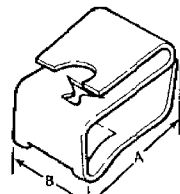
TYPE 3



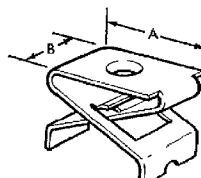
TYPE 4



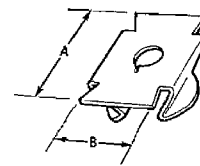
TYPE 5



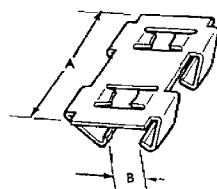
TYPE 6



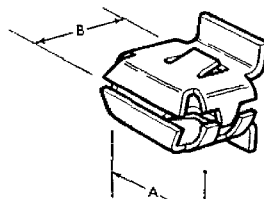
TYPE 7



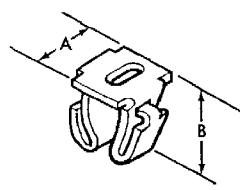
TYPE 8



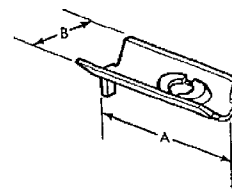
TYPE 9



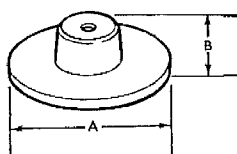
TYPE 10



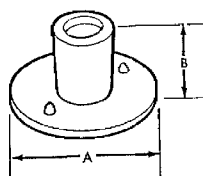
TYPE 11



TYPE 12



TYPE 13



TYPE 14

PH-123

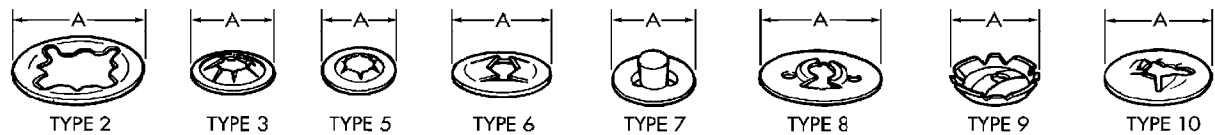
| DIAMETER | THREAD | A       | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|---------|--------|------|--------------|-------|-------------|
| 3/16"    |        | 3/4"    | 7/16"  | 1    | MM-269-A     | 5     | ★373275-S2  |
| 1/4"     |        | 9/16"   | 7/16"  | 1    | MM-269-C     | 5     | ★356728-S2  |
| 3/8"     | 16     | 15/16"  | 11/16" | 1    | MM-269-E     | 5     | ★377689-S2  |
| 1/2"     | 20     | 31/32"  | 3/4"   | 1    | MM-270       | 5     | 356080-S32  |
| 1/8"     |        | 43/64"  | 3/8"   | 2    | MM-271       | 5     | ★359464-S7  |
| No. 8    |        | 5/8"    | 1/2"   | 6    | MM-273-D     | 5     | ★382655-S2  |
|          |        | 1-5/64" | 1/4"   | 9    | MM-278       | —     | ★385277-S   |

### Metric

| NOMINAL SIZE | A       | B      | TYPE | LOCATOR CODE | P/C | PART NUMBER  |
|--------------|---------|--------|------|--------------|-----|--------------|
| M14          | 31mm    | 22mm   | 1    | AM-52-G      | 9   | N800793-S2   |
| M7.75        | 16.4mm  | 1.8mm  | 2    | AM-52-P      |     | N807165-S    |
| M4.2         | 9.52mm  | 6mm    | 8    | AM-52-J      |     | N803328-S2   |
| M4.2         | 11mm    | 12.3mm | 11   | AM-52-S      |     | W705093-S403 |
| M4.2         | 11.3mm  | 12.1mm | 11   | AM-52-R      | —   | N811372-S100 |
| M4.2         | 11.8mm  | 12mm   | 11   | AM-52-L      |     | N803685-S11  |
| M4.2         | 11.8mm  | 12mm   | 11   | AM-52-L      | —   | N803685-S301 |
| M4.2         | 12.95mm | 13.2mm | 11   | AM-52-M      | —   | N806511-S301 |
| M6           | 19.3mm  | 15.5mm | 11   | AM-52-T      | —   | W710198-S438 |
| M11.29       | 38.10mm | 11.7mm | 13   | AM-52-RE     |     | N805827-S    |
| M6           | 25mm    | 13mm   | 14   | AM-52-N      |     | N807315-SBE  |

# Standard and Utility Parts Catalog

## PH-125 NUT — SPRING — ROUND TYPE



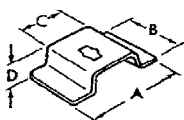
PH125

| SHAFT DIAMETER | A      | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------------|--------|------|--------------|-------|-------------|
| 3/16"          | 7/16"  | 3    | MM-262-F     |       | 372927-S2   |
| 5/16"          | 15/16" | 3    | MM-260-B     | 5     | 388890-S2   |
| 1/4"           | .531   | 3    | MM-260-D     | —     | 387560-S2   |
| 1/4"           | 1/2"   | 5    | MM-263-D     | 5     | 373907-S2   |
| 1/32"          | 3/16"  | 6    | MM-263-B     | 5     | ★ 383211-S2 |
| 1/2"           | 15/16" | —    | MM-317-DA    | 5     | 383609-SA   |

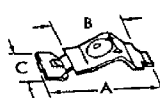
### Metric

| SHAFT DIAMETER | A       | TYPE | LOCATOR CODE | P/C | PART NUMBER     |
|----------------|---------|------|--------------|-----|-----------------|
| M6.5           | 10mm    | 2    | AM-84-D      | —   | ★ N800384-S8M   |
| M7.9           | 11.23mm | 2    | AM-89-J      |     | W623451-S2A     |
| M11            | 22.5mm  | 2    | AM-84-E      | 9   | ★ N801562-S2    |
| M3.2           | 9.63mm  | 3    | AM-84-C      |     | W623450-S36     |
| M4             | 11mm    | 3    | AM-87-D      | 9   | ★ W623451-S     |
| M4             | 11mm    | 3    | AM-87-CC     | 8.8 | ★ N800879-S40M  |
| M6             | 13.5mm  | 3    | AM-87-F      | 9   | ★ W623453-S2    |
| M6             | 13.48mm | 3    | AM-87-H      | 9   | ★ W623463-S54   |
| M8             | 16mm    | 3    | AM-87-J      | 9   | W623464-S2      |
| M8             | 16mm    | 3    | AM-87-K      | 9   | W623454-S       |
| M8             | 22mm    | 3    | AM-88-E      | 9   | ★ E864838-S81   |
| M12            | 16mm    | 3    | 650-740      | —   | W623485-S301    |
| M12            | 16mm    | 3    | 650-740      |     | W701110-S309M   |
| M5             | 11mm    | 5    | AM-87-E      | 9   | ★ W623452-S36   |
| M5             | 11mm    | 5    | AM-87-G      | 9   | ★ W623462-S39   |
| M6             | 12.83mm | 6    | AM-87-P      |     | ★ N807214-S55   |
| M2.7           | 8.1mm   | 10   | AM-89-A      | 5.2 | ★ E865299-S71M  |
| 4.8mm          | 13.00mm | 10   | AM-89-A      | —   | W701795-S437    |
| 4.8mm          | 13.00mm | 10   | AM-89-A      | —   | W701795-S438    |
| M5             | 14.5mm  | 10   | AM-89-H      | —   | N808734-S36     |
| M6             | 12.9mm  | 10   | AM-89-C      | —   | W623482-S301    |
| M6             | 24mm    | 10   | AM-89-L      |     | N811458-S301    |
| M8             | 16mm    | 10   | AM-89-D      | 9   | W623483-SA      |
| M8             | 16mm    | 10   | AM-89-D      | 9   | W623483-S2      |
| M8             | 16mm    | 10   | AM-89-D      | 9   | W623483-S100    |
| M8             | 16mm    | 10   | AM-89-D      | 9   | W623483-S301    |
| M8             | 16mm    | 10   | AM-89-D      | 9   | W623483-S439    |
| M10            | 20mm    | 10   | AM-89-E      | 9   | ★ W623484-S     |
| M10            | 20mm    | 10   | AM-89-F      | —   | ★ W623484-S43MB |
| M10.8          | 21.4mm  | 10   | AM-89-G      |     | ★ E865067-S85   |
| M12            | 21.50mm | 10   | AM-89-B      |     | W623485-S       |

## PH-126 NUT — SPRING — SPECIAL



TYPE 1

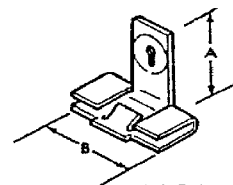


TYPE 2



N802190-S53 (AM-48-H) 12.7mm 6.35mm  
N802215-S53 (AM-48-J) 16.25mm 8mm

TYPE 3

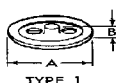


TYPE 4

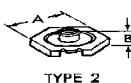
PH-126

| A       | B      | C      | D    | TYPE | LOCATOR CODE | PART NUMBER   |
|---------|--------|--------|------|------|--------------|---------------|
| 11/16"  | 3/8"   | 3/8"   | 1/8" | 1    | MM-267-F     | ★379642-S     |
| Metric  |        |        |      |      |              |               |
| 37.3mm  | 22mm   | 15.7mm |      | 2    | AM-48-G      | ★E824022-S81  |
| 12.7mm  | 6.35mm |        |      | 3    | AM-48-H      | ★N802190-S53  |
| 12.7mm  | 6.35mm |        |      | 3    | AM-48-HA     | N802190-S53B  |
| 16.25mm | 8mm    |        |      | 3    | AM-48-J      | ★N802215-S53  |
| 66mm    | 18mm   |        |      | 3    | AM-48-K      | ★W701474-S309 |
| 20mm    | 20mm   | 10mm   |      | 4    | AM-48-A      | ★E824068-S81  |

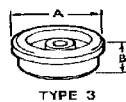
## PH-621 NUT — SPECIAL



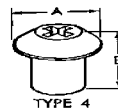
TYPE 1



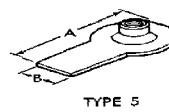
TYPE 2



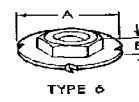
TYPE 3



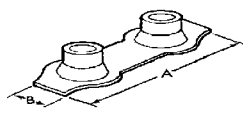
TYPE 4



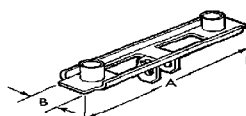
TYPE 5



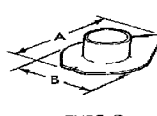
TYPE 6



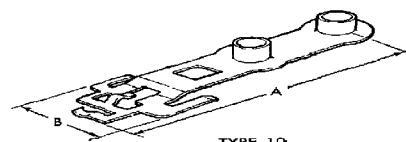
TYPE 7



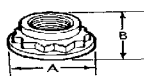
TYPE 8



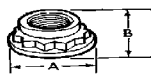
TYPE 9



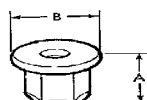
TYPE 10



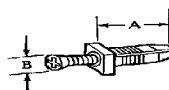
TYPE 11



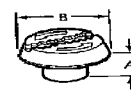
TYPE 12



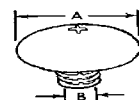
TYPE 13



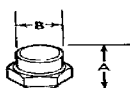
TYPE 14



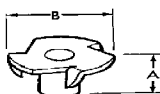
TYPE 15



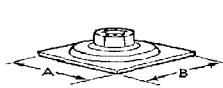
TYPE 16



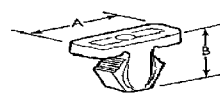
TYPE 17



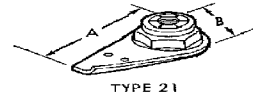
TYPE 18



TYPE 19



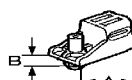
TYPE 20



TYPE 21



TYPE 22



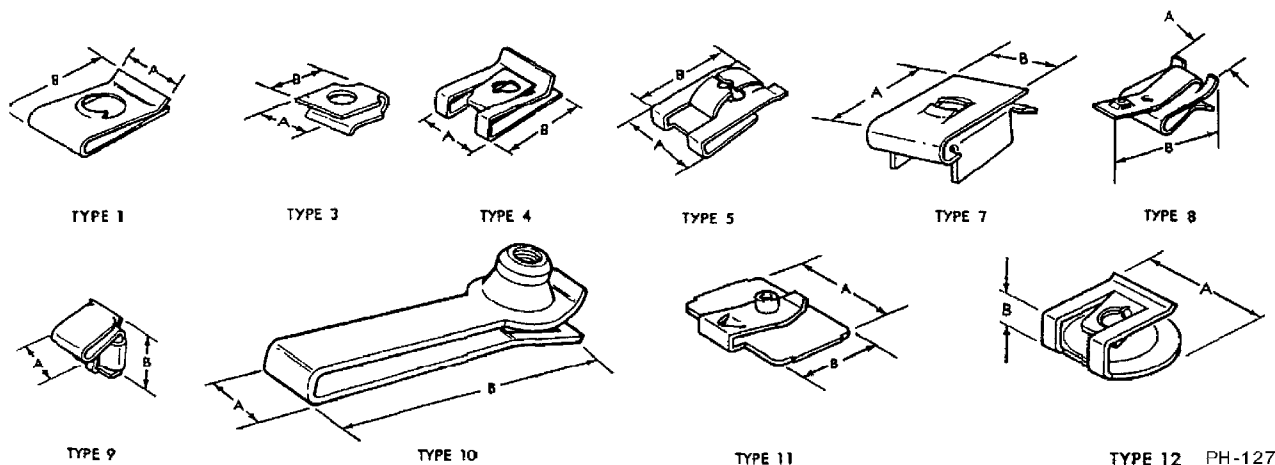
TYPE 23

PH-621  
12/01/2003

(continued)



## PH-127 NUT — SPRING — “U” SHAPE



| DIAMETER | THREAD | A     | B       | TYPE | LOCATOR CODE | GRADE | PART NUMBER |
|----------|--------|-------|---------|------|--------------|-------|-------------|
| No. 8    | 18     | 7/16" | 1-3/32" | 1    | MM-275-EE    | 5     | 388814-S36  |
| No. 8    | 18     | 1/2"  | 1"      | 4    | MM-268-C     | 5     | 388905-S100 |

### Metric

| NOMINAL SIZE | A       | B       | TYPE | LOCATOR CODE | P/C | PART NUMBER    |
|--------------|---------|---------|------|--------------|-----|----------------|
| M6.3         | 16mm    | 16mm    | 1    | AM-56-K      | —   | W700705-S309M  |
| M8           | 20mm    | 31mm    | 1    | AM-54-K      | 8   | ★ E824049-S72  |
| M8           | 21.2mm  | 14mm    | 1    | AM-54-F      | 9   | ★ E824027-S81  |
| No. 8        | 11mm    | 12.3mm  | 1    | AM-19-J      | —   | ★ E824046-S81  |
| No. 8        | 11.1mm  | 15.9mm  | 1    | AM-19-H      | —   | ★ E824021-S8   |
| No. 10       | 12.7mm  | 19.8mm  | 1    | AM-19-L      | —   | ★ E824054-S81  |
| M4           | 1.75mm  | 16.15mm | 3    | AM-20-AB     | —   | N807449-S100   |
| M4.2         | 11mm    | 16mm    | 3    | AM-276-B     | —   | W700553-S305   |
| M4.2         | 11mm    | 16mm    | 3    | AM-276-A     | —   | W700553-S426   |
| No. 8        | 11mm    | 12.5mm  | 4    | AM-54-B      | —   | ★ E824047-S81  |
| M3.4         | 15mm    | 21mm    | 4    | AM-54-J      | —   | E824123-S74    |
| M4.2         | 14mm    | 19mm    | 4    | AM-276       | —   | N802538-S101   |
| M4.2         | 14.20mm | 25.7mm  | 4    | AM-54-T      | —   | W707739-S439   |
| M4.2         | 14.3mm  | 20.0mm  | 4    | AM-54-R      | —   | W708991-S301   |
| M4.2         | 14.3mm  | 20.0mm  | 4    | AM-54-R      | —   | W708991-S900   |
| 4.4mm        | 10.10mm | 14.75mm | 4    | AM-276-A     | —   | W709321-S305   |
| M6           | 6mm     | 27mm    | 4    | AM-54-AA     | 6   | ★ E824122-S72  |
| M6           | 9.3mm   | 13.5mm  | 4    | AM-54-H      | —   | ★ E824051-S81  |
| M6           | 23mm    | 23.5mm  | 4    | AM-54-E      | —   | N802810-S438   |
| M6.3         | 8.0mm   | 23.5mm  | 4    | AM-54-A      | —   | W700683-S301   |
| M12          | 38mm    | 64.5mm  | 4    | AM-54-M      | —   | W708606-S436   |
| M12          | 43mm    | 34.5mm  | 4    | AM-54-D      | 10  | W710473-S900   |
| M12          | 55mm    | 68.5mm  | 4    | AM-54-L      | —   | W708605-S436   |
| M14          | 56.5mm  | 43.25mm | 4    | AM-54-P      | 10  | W710089-S440   |
| M4.2         | 14.20mm | 25.7mm  | 5    | AM-91-F      | —   | N806851-S100   |
| M7           | 18.5mm  | 29mm    | 5    | AM-91-E      | —   | ★ E824059-S81  |
| No. 8        | 13.89mm | 17.07mm | 5    | AM-91-G      | —   | 385169-S32     |
| M4.2         | 14.20mm | 20.25mm | 5    | AM-75-H      | —   | N802538-S301   |
| M4.2         | 17.8mm  | 12.9mm  | 7    | AM-75-G      | 9   | ★ E824023-S    |
| M4.2         | 25.6mm  | 49.5mm  | 8    | AM-57-E      | 9   | ★ E824117-S100 |
| M4.2         | 17mm    | 12.5mm  | 9    | AM-57-M      | 9   | ★ N802649-S2   |
| M4           | 11.0mm  | 17.5mm  | 10   | AM-58-B      | 9   | N623330-S2     |
| M4           | 11.0mm  | 17.5mm  | 10   | AM-81-D      | 9   | N623330-S6     |
| M4           | 11.0mm  | 17.5mm  | 10   | AM-81-D      | 9   | N623330-S303   |
| M4           | 11.0mm  | 21.5mm  | 10   | AM-54-N      | —   | W520830-S426   |
| M4.2         | 10.5mm  | 17.8mm  | 10   | AM-81-H      | —   | W707291-S403   |

(continued)

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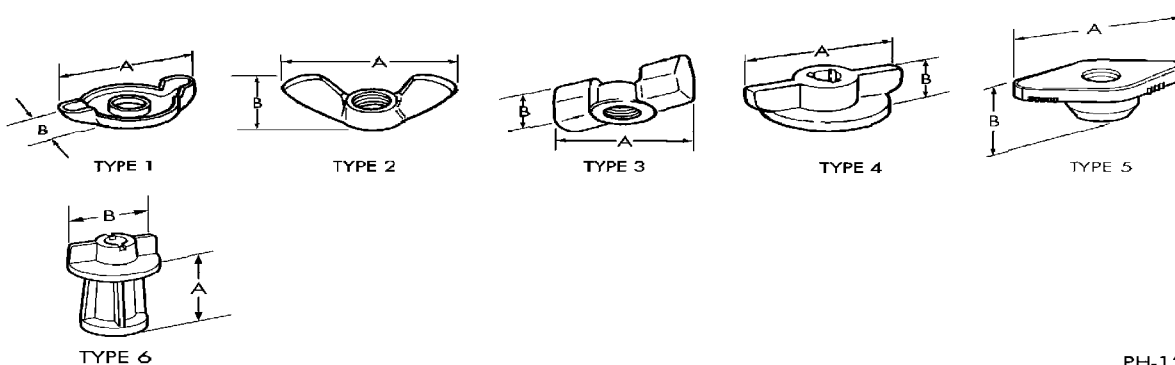
Standard and Utility Parts Catalog

PH-127      NUT — SPRING — “U” SHAPE (Cont’d)

| Metric (cont’d) |         |         |      |              |     |                |
|-----------------|---------|---------|------|--------------|-----|----------------|
| NOMINAL SIZE    | A       | B       | TYPE | LOCATOR CODE | P/C | PART NUMBER    |
| M4.8            | 3.1mm   | 16.2mm  | 10   | AM-81-DA     | —   | ★ W704300-S301 |
| M5              | 12.0mm  | 20.0mm  | 10   | AM-54-A      | —   | W520821-S426   |
| M6              | 0.8mm   | 0.4mm   | 10   | AM-81-A      | —   | W707043-S436   |
| M6              | 12.5mm  | 29.6mm  | 10   | AM-81-AB     | 9   | N808381-S426   |
| M6              | 13.0mm  | 24.0mm  | 10   | AM-54-EA     | —   | W520802-S309   |
| M6              | 13.0mm  | 24.0mm  | 10   | AM-54-EB     | —   | W520802-S426   |
| M6              | 13.0mm  | 24.0mm  | 10   | AM-54-EC     | —   | ★ W520802-S437 |
| M6              | 13.0mm  | 24.0mm  | 10   | AM-81-AA     | —   | W520822-S426   |
| M6              | 13.0mm  | 24.0mm  | 10   | AM-81-AA     | —   | W520822-S439   |
| M6              | 13.0mm  | 30.0mm  | 10   | WE-510-A     | —   | W520812-S301   |
| M6              | 13.0mm  | 30.0mm  | 10   | WE-510-B     | —   | W520812-S424   |
| M6              | 13.0mm  | 30.0mm  | 10   | WE-510-C     | —   | W520812-S426   |
| M6              | 13.0mm  | 30.0mm  | 10   | WE-510-D     | —   | W520812-S439   |
| M6              | 13.0mm  | 30.0mm  | 10   | AB-81-BA     | —   | W520832-S424   |
| M6              | 13.0mm  | 30.0mm  | 10   | AB-81-BA     | —   | W520832-S426   |
| M6              | 22.1mm  | 12.57mm | 10   | AB-81-AB     | 8   | ★ W704255-S426 |
| M6              | 28mm    | 12mm    | 10   | AM-81-AZ     | —   | N801257-S426   |
| M8              | 1.25mm  | —       | 10   | AB-81-AD     | —   | ★ N800296-S436 |
| M8              | 14.2mm  | 44.6mm  | 10   | AM-81        | —   | W710252-S439   |
| M8              | 14.2mm  | 45.6mm  | 10   | AM-81-BG     | 10  | N804340-S426   |
| M8              | 14.7mm  | 25.5mm  | 10   | AM-81-BH     | —   | W520803-S426   |
| M8              | 14.7mm  | 25.5mm  | 10   | AM-81-BH     | —   | W520803-S439   |
| M8              | 14.7mm  | 25.5mm  | 10   | AM-81-BJ     | —   | W520823-S426   |
| M8              | 14.7mm  | 32.0mm  | 10   | AM-81-BJ     | —   | W520813-S426   |
| M8              | 17mm    | 22.6mm  | 10   | AB-81-AC     | —   | W707002-S301   |
| M8              | 32.0mm  | 14.7mm  | 10   | AM-81-BA     | —   | ★ W520833-S301 |
| M8              | 32.0mm  | 14.7mm  | 10   | AM-81-BA     | —   | W520833-S426   |
| M8              | 32.0mm  | 14.7mm  | 10   | AM-81-BA     | —   | W520833-S439   |
| M10             | 17mm    | 43mm    | 10   | AM-81-C      | 10  | N801107-S410   |
| M10             | 18mm    | 33mm    | 10   | AM-81-F      | —   | W520804-S426   |
| M10             | 18.0mm  | 33.0mm  | 10   | AM-81-G      | —   | W520824-S426   |
| M10             | 18.0mm  | 33.0mm  | 10   | AM-81-G      | —   | W520824-S439   |
| M12             | 32.5mm  | 65.0mm  | 10   | AM-81-FA     | —   | W709404-S436   |
| M14             | 38.0mm  | 65.0mm  | 10   | AM-140-E     | —   | W709486-S436   |
| M4.2            | 22.5mm  | 5.5mm   | 12   | AM-141-A     | —   | N806399-S58    |
| M4.2            | 20.25mm | 5.1mm   | 13   | AM-20-A      | —   | ★ N802538-S32  |

| NOMINAL SIZE | A       | B       | C       | D       | TYPE | P/C | LOCATOR CODE | PART NUMBER  |
|--------------|---------|---------|---------|---------|------|-----|--------------|--------------|
| M6           | 23.5mm  | 17.0mm  | 15.0mm  | 12.5mm  | 14   | —   | AM-50-AD     | N804272-S436 |
| 14mm         | 38.0mm  | 20.5mm  | 19.5mm  | 45.0mm  | 15   | —   | AM-50-AH     | W708770-S436 |
| M6           | 15.0mm  | —       | 10.0mm  | 13.0mm  | 15   | —   | AM-50-AJ     | W705545-S301 |
| M6           | 24.00mm | 14.61mm | 12.95mm | 11.42mm | 16   | —   | AM-50-AK     | W707005-S426 |

## PH-129 NUT — WING



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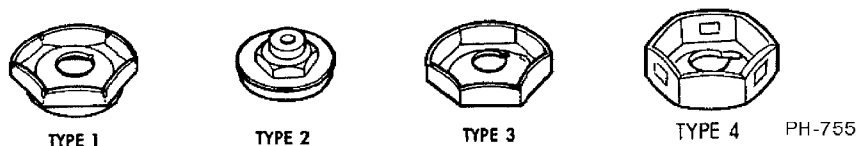
| DIAMETER | THREAD | A        | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER  |
|----------|--------|----------|--------|------|--------------|-------|--------------|
| 1/4"     | 20     | 1-5/16"  | 5/16"  | 1    | MM-297-C     | 2     | ★385694-S8   |
| 1/4"     | 20     | 1-5/16"  | 5/16"  | 1    | MM-297-CA    | 2     | ★385694-S36B |
| 1/4"     | 20     | 1-7/16"  | 15/32" | 1    | MM-297-A     | 2     | ★358871-S8B  |
| 1/4"     | 20     | 1-7/16"  | 15/32" | 1    | MM-297-AA    | 2     | 358871-S36B  |
| 1/4"     | 20     | 40mm     | 13.5mm | 1    | MM-297-AB    |       | ★U350561-S2  |
| 1/4"     | 20     | 1-23/32" | 1"     | 1    | MM-297-CC    | 2     | ★390013-S36B |
| 3/8"     | 24     | 1-5/16"  | 15/16" | 3    | MM-302       | 2     | ★374702-S2   |
| 1/4"     |        | 1-5/8"   | 1/2"   | 4    | MM-303-F     |       | ★388796-S☆   |

### Metric

|    |     |        |        |   |          |         |               |
|----|-----|--------|--------|---|----------|---------|---------------|
| M6 | 1.0 |        |        | 1 | AM-120-H | 5       | ★W623443-S141 |
| M6 |     |        |        | 1 | AM-77-EA | 5       | ★N801368-S36B |
| M8 |     | 33.3mm | 15.1mm | 1 | AM-77-EC | 5       |               |
| M8 |     | 38.8mm | 19.5mm | 1 | AM-77-EB | —       | ★N800917-S8   |
| M8 |     | 39mm   | 16mm   | 2 | AM-72-G  | 4       | ★E826054-S72  |
| M6 | 1.0 | 30mm   | 16mm   | 2 | AM-72-AA | Plastic | W707668-S300  |
| M6 | —   | 36mm   | 20mm   | 4 | AM-72-GM | —       | ★N806298-S    |
| M8 |     | 35.6mm | 12.7mm | 4 | AM-76-E  | —       | ★N800290-S☆   |
| M8 | —   | 70mm   | 24.7mm | 5 | AM-78-A  | 5       | W708626-S900  |
| M8 | —   | 27.0mm | 25.0mm | 6 | AM-78-B  | Plastic | W707612-S300  |

☆ Nylon

## PH-755 NUT — STAMP



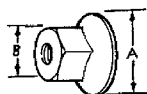
| DIAMETER | THREAD | A | B | TYPE | LOCATOR CODE | P/C | PART NUMBER |
|----------|--------|---|---|------|--------------|-----|-------------|
| 3/8"     | 18     | — | — | 3    | MM-360-A     | —   | 390429-S100 |
| 5/8"     | 8      |   |   | 4    | MM-360-E     |     | ★390714-S   |

### Metric

| DIAMETER | THREAD | A | B | TYPE | LOCATOR CODE | P/C | PART NUMBER   |
|----------|--------|---|---|------|--------------|-----|---------------|
| M6.3     | 1.27   |   |   | 1    | AM-120-E     | 9   | ★N801788-S100 |
| M12      | 1.75   |   |   | 1    | AM-120-EK    | —   | ★N803442-S36  |
| M4       | .7     |   |   | 2    | AM-120-F     |     | ★N803395-S100 |
| M4       | .7     |   |   | 3    | AM-120-G     |     | ★W623441-S36  |



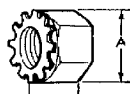
## PH-238 NUT and WASHER ASSY.



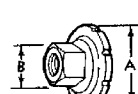
TYPE 1



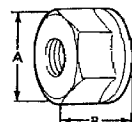
TYPE 2



TYPE 3



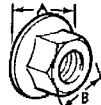
TYPE 5



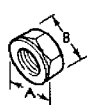
TYPE 6



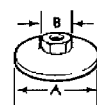
TYPE 7



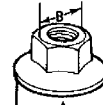
TYPE 8



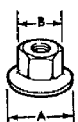
TYPE 9



TYPE 11



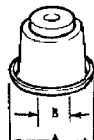
TYPE 12



TYPE 13



TYPE 14



TYPE 15

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| DIAMETER | THREAD | A       | B      | TYPE | LOCATOR CODE | GRADE | PART NUMBER   |
|----------|--------|---------|--------|------|--------------|-------|---------------|
| No.8     | 32     | 3/8"    | 11/32" | 1    | MM-291-AA    | 5     | ★383693-S100■ |
| No. 10   | 24     | 5/8"    | 3/8"   | 1    | MM-291-A     | 5     | ★359606-S8    |
| No. 10   | 24     | 5/8"    | 3/8"   | 1    | MM-291-B     | 5     | ★354479-S7    |
| 1/4"     | 20     | 7/8"    | 7/16"  | 1    | MM-291-F     | 5     | 373556-S100■  |
| 1/4"     | 20     | 1-1/8"  | 7/16"  | 1    | MM-355-E     | 5     | ★384982-S100■ |
| 5/16"    | 24     | 3/4"    | 1/2"   | 1    | MM-291-CA    | 5     | ★378653-S     |
| 9/16"    | 18     | 1-5/8"  | 1"     | 1    | MM-291-CB    | 8     | ★389927-S100  |
| No. 10   | 32     | 11/16"  | 5/16"  | 2    | MM-291-EA    | 5     | 383367-S100   |
| 1/8"     |        | 17/32"  | 5/16"  | 2    | MM-292       | 5     | ★370713-S100  |
| 3/8"     | 16     | 57/64"  | 9/16"  | 2    | MM-292-H     | 5     | 376785-S2     |
| 3/8"     | 24     | 13/16"  | 5/8"   | 2    | MM-292-A     | 5     | ★376642-S35   |
| 5/16"    | 18     | 1/2"    | 17/64" | 3    | MM-295-AE    | 5     | ★384621-S2    |
| 5/16"    | 18     | 9/16"   | 9/32"  | 3    | MM-295-AD    | 5     | ★381561-S36   |
| No. 10   | 24     | 1/2"    | 27/64" | 6    | MM-295-R     | 5     | ★376784-S2    |
| 5/16"    | 18     | 3/4"    | 17/64" | 6    | 200-020      | 5     | 45338-S60     |
| 9/16"    | 12     | 59/64"  | 51/64" | 6    | MM-295-N     | 5     | 375185-S100   |
| No. 10   | 24     | 5/8"    | 3/8"   | 7    | MM-191-E     | 5     | 353911-S100   |
| 1/4"     | 20     | 1-1/2"  | 7/16"  | 7    | MM-295-ZN    | 5     | ★387353-S36B■ |
| 1/2"     | 13     | 3/4"    | 11/16" | 7    | MM-171-A     | 5     | 390128-S2     |
| 5/16"    | 18     | 3/4"    | 1/2"   | 8    | MM-295-AA    | 5     | ★374031-S7-8  |
| 5/16"    | 24     | 1"      | 9/16"  | 8    | MM-295-AH    | 5     | ★387167-S2    |
| 3/8"     | 16     | 7/8"    | 21/32" | 8    | MM-292-H     | 5     | ★376785-S53   |
| 3/8"     | 24     | 1-1/8"  | 9/16"  | 8    | MM-295-AK    | 5     | ★389246-S2    |
| 7/16"    | 14     | 15/16"  | 11/16" | 8    | MM-295-AJ    | 8     | ★388795-S100△ |
| 7/16"    | 20     | 15/16"  | 11/16" | 8    | MM-295-AL    | 1     | ★E426221-S80  |
| 1/2"     | 13     | 1"      | 3/4"   | 8    | MM-295-AB    | 8     | ★383577-S100  |
| 1/2"     | 13     | 2"      | 7/8"   | 8    | MM-295-AF    | 5     | ★388940-S2☆   |
| 9/16"    | 12     | 1-3/16" | 7/8"   | 8    | MM-295-AC    | 5     | ★385397-S2    |
| 3/8"     | 16     | 5/8"    | 9/16"  | 9    | MM-295-AG    | 5     | ★382136-S     |
| No. 8    | 32     | 1"      | 11/32" | 11   | MM-295-Z     | 5     | ★384768-S100  |
| No. 10   | 24     | 3/8"    | 5/16"  | 12   | MM-296-AC    | 5     | 383255-S36    |
| 1/4"     | 20     | 1/2"    | 7/16"  | 12   | MM-296-AE    | 5     | ★383256-S     |
| 1/4"     | 20     | 3/4"    | 7/16"  | 12   | MM-296-AG    | 5     | ★383278-S2    |
| 5/16"    | 18     | 3/4"    | 1/2"   | 12   | MM-296-AF    | 5     | 376838-S2     |
| 5/16"    | 18     | 3/4"    | 1/2"   | 12   | MM-296-AG    | 5     | ★376838-S424  |
| 5/16"    | 18     | 3/4"    | 1/2"   | 12   | MM-296-AG    | —     | 381561-S301   |
| 5/16"    | 18     | 1-1/4"  | 1/2"   | 12   | MM-318       | 5     | ★383546-S39   |
| 1/2"     | 13     | 1/2"    | 7/8"   | 12   | MM-296-AK    | 5     | ★388049-S2    |

# Standard and Utility Parts Catalog

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## PH-238 NUT and WASHER ASSY. (Cont'd)

| Metric Coarse Thread |         |         |      |              |     |                |
|----------------------|---------|---------|------|--------------|-----|----------------|
| NOMINAL SIZE         | A       | B       | TYPE | LOCATOR CODE | P/C | PART NUMBER    |
| M6                   | 19.0mm  | 11.55mm | 1    | AM-24-MA     |     | W710892-S441   |
| M8                   | 20mm    | 13mm    | 1    | AM-24-MA     |     | ★ E822090-S83  |
| M8                   | 21mm    | 13mm    | 1    | AM-24-M      | 8   | ★ E822083-S72  |
| M10                  | 21mm    | 15mm    | 1    | AM-24-G      | 9   | ★ N801560-S2   |
| M10                  | 21.5mm  | 15mm    | 1    | AM-24-D      | 9   | N620482-S2     |
| M10                  | 21.5mm  | 15mm    | 1    | AM-24-DA     | 9   | N800152-S2     |
| M10                  | 21.5mm  | 15mm    | 1    | AM-24-DB     | 9   | ★ N801650-S150 |
| M10                  | 21.5mm  | 15mm    | 1    | AM-24-C      | 10  | ★ N802396-S2   |
| M12                  | 19.5mm  | 15mm    | 1    | AM-24-L      |     | ★ N803121-S150 |
| M12                  | 41.0mm  | 18mm    | 2    | AM-23-E      | 10  | W708731-S301   |
| M6                   | 11mm    | 5.7mm   | 3    | AM-3-N       | 9   | W620397-S36    |
| M5                   | 11.5mm  | 15mm    | 6    | 200-020      | 9   | N621903-S301   |
| M6                   | 11mm    | 19mm    | 6    | AM-9-B       | 9   | N621906-S55    |
| M6                   | 11mm    | 19mm    | 6    | AM-9-B       | 9   | N621906-S100   |
| M6                   | 11mm    | 19mm    | 6    | AM-9-B       | 9   | N621906-S101   |
| M6                   | 11mm    | 19mm    | 6    | AM-9-B       | 9   | N621906-S102   |
| M6                   | 11mm    | 19mm    | 6    | AM-9-B       | 9   | N621906-S427   |
| M6                   | 11mm    | 19mm    | 6    | AM-9-B       | 9   | N621906-S436   |
| M6                   | 11mm    | 19mm    | 6    | AM-9-B       | 9   | N621906-S438   |
| M6                   | 15.8mm  | 6.5mm   | 6    | AM-9-C       | —   | ★ W706414-S100 |
| M6                   | 16.0mm  | 10.8mm  | 6    | 200-020      |     | N621905-S40B   |
| M8                   | 13mm    | 7.8mm   | 6    | 200-020      | 8   | W701731-S309   |
| M16                  | 24mm    | 18mm    | 6    | AM-25-A      | 9   | ★ N801651-S100 |
| M6                   | 16mm    | 11mm    | 7    | AM-24-B      | —   | N802350-S2     |
| M6                   | 17mm    | 12.5mm  | 7    | AM-24-F      | 9   | ★ N800559-S36  |
| M6                   | 19mm    | 12mm    | 7    | AM-24-H      | 9   | ★ N621926-S36■ |
| M6                   | 24mm    | 11mm    | 7    | AM-24-J      | 9   | N621927-S301   |
| M6                   | 24mm    | 11mm    | 7    | AM-24-J      | 9   | N621927-S440   |
| M6                   | 24mm    | 11mm    | 7    | AM-24-A      | 9   | ★ N804395-S100 |
| M4                   | 11.0mm  | 7.54mm  | 8    | AM-9-GG      | 8   | N808997-S424   |
| M4                   | 12mm    | 7mm     | 8    | AM-9-G       | 6   | ★ E820041-S72  |
| M5                   | 11.8mm  | 8mm     | 8    | AM-8-F       | 8   | E822112-S72    |
| M5                   | 14.2mm  | 11mm    | 8    | AM-9-S       | 8   | ★ E822124-S72  |
| M5                   | 20mm    | 8.79mm  | 8    | AM-24-N      | —   | W700667-S309   |
| M6                   | 14mm    | 11.6mm  | 8    | AM-24-P      | —   | N805320-S100   |
| M6                   | 14mm    | 11.6mm  | 8    | AM-24-PB     | —   | N805320-S309   |
| M6                   | 14mm    | 11.6mm  | 8    | AM-24-PA     | —   | N805320-S435   |
| M6                   | 14mm    | 11.6mm  | 8    | AM-24-PC     | —   | N805320-S437   |
| M6                   | 1mm     | —       | 8    | AM-9         | —   | ★ N621906-S310 |
| M6                   | 12mm    | 1.75mm  | 8    | AM-9-CD      | 8   | ★ N801995-S428 |
| M6                   | 12.5mm  | 10mm    | 8    | AM-9-CA      | 9   | E822109-S72    |
| M6                   | 14mm    | 10mm    | 8    | AM-9-CC      | 8   | ★ E822082-S72  |
| M6                   | 14mm    | 11.1mm  | 8    | AM-9         | 8   | E822125-S72    |
| M6                   | 14.3mm  | 10mm    | 8    | AM-9-C       | 9   | N801600-S2     |
| M6                   | 15mm    | 10mm    | 8    | AM-9-CB      | 9   | ★ E820038-S72  |
| M6                   | 24mm    | 11mm    | 8    | AM-9-CE      | —   | ★ N803300-S2   |
| M8                   |         |         | 8    | AM-9-L       | 6   | ★ E822106-S71  |
| M8                   | 5mm     | 8.7mm   | 8    | AM-10-Z      | —   | N808099-S06    |
| M8                   | 5mm     | 8.7mm   | 8    | AM-10-Z      | —   | N808099-S427   |
| M8                   | 11.85mm | 18mm    | 8    | AM-10-Y      | —   | W707169-S421   |
| M8                   | 13mm    | 9.6mm   | 8    | AM-10-AD     | —   | N621939-S309   |
| M8                   | 14mm    | 11mm    | 8    | AM-10        | 10  | ★ N800007-S51  |
| M8                   | 17.6mm  | 13mm    | 8    | AM-9-D       | 9   | ★ N801248-S2   |
| M8                   | 17.6mm  | 13mm    | 8    | AM-9-K       | 9   | ★ N801248-S36  |
| M8                   | 17.6mm  | 13mm    | 8    | AM-9-R       | 9   | ★ N801248-S51  |
| M8                   | 19mm    | 13mm    | 8    | AM-24-K      | 9   | N621939-SA     |
| M8                   | 19mm    | 13mm    | 8    | AM-24-K      | 9   | ★ N621939-S2   |
| M8                   | 19mm    | 13mm    | 8    | AM-9-H       | 9   | N621939-S36    |
| M8                   | 19mm    | 13mm    | 8    | AM-24-K      | 9   | N621939-S437   |
| M8                   | 19mm    | 13mm    | 8    | AM-9-JA      | 9   | ★ N800251-S2   |
| M8                   | 19mm    | 13mm    | 8    | AM-9-J       | 9   | ★ N800251-S36  |
| M8                   | 19mm    | 13mm    | 8    | AM-9-JK      | 9   | ★ N800251-S100 |

■ Includes Sealer

☆ Nylon

(continued)



PH-238

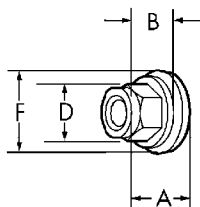
NUT and WASHER ASSY. (Cont'd)

## Metric Coarse Thread (Cont'd)

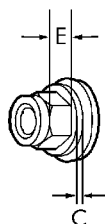
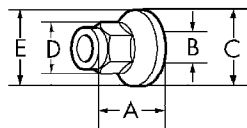
| NOMINAL SIZE | A       | B       | TYPE | LOCATOR CODE | P/C | PART NUMBER   |
|--------------|---------|---------|------|--------------|-----|---------------|
| M8           | 28mm    | 13mm    | 12   | AM-29-C      | 9   | N803826-S36   |
| M10          | 24mm    | 15mm    | 12   | AM-29-R      | 10  | W705043-S427  |
| M10          | 26mm    | 18mm    | 12   | AM-29-B      | 10  | ★N803951-S2   |
| M10          | 26mm    | 18mm    | 12   | AM-29-A      | 10  | ★N803951-S190 |
| M12          | 44.09mm | —       | 12   | AM-29-Q      | —   | N621946-S301  |
| M12          | 44.09mm | —       | 12   | AM-29-Q      | —   | N621946-S441  |
| M6           | 1.0mm   | —       | 13   | AM-3-BC      | —   | N803300-S301  |
| M6           | 1.0mm   | —       | 13   | AM-3-BD      | —   | N803300-S436  |
| M6           | 10mm    | 14.4mm  | 13   | AM-3-BB      | 10  | W704141-S309  |
| M8           | 17mm    | —       | 13   | AM-3-F       | —   | ★N805024-S36  |
| M8           | 17mm    | —       | 13   | AM-3-F       | —   | N805024-S437M |
| M8           | 19mm    | 13mm    | 13   | AM-3-D       | 9   | N800251-S36B  |
| M8           | 19.00mm | 15.00mm | 13   | AM-3-DB      | 9   | N800251-S301  |
| M8           | 19.00mm | 15.00mm | 13   | AM-3-DA      | 9   | ★N800251-S427 |
| M8           | 24.0mm  | 13.00mm | 13   | AM-3-DC      | 8   | W705047-S426  |
| M8           | 24.0mm  | 13.00mm | 13   | AM-3-DC      | 8   | ★W705047-S439 |
| M8           | 25mm    | 14.38mm | 13   | AM-3-C       | 8   | ★E822087-S72  |
| M8           | 25mm    | 15.01mm | 13   | AM-3-CA      | 8   | W704370-S309  |
| M10          | 24mm    | 17mm    | 13   | AM-3-E       | 8   | ★E822085-S72  |
| M12          | 18mm    | 32mm    | 13   | AM-3-B       | —   | ★N804219-S8   |
| M12          | 32mm    | 18mm    | 13   | AM-3         | 9   | ★N621946-S2   |
| M12          | 32mm    | 18mm    | 13   | AM-3-AA      | 9   | ★N804938-S40  |
| M14          | 54.4mm  | 21mm    | 13   | AM-3-A       | 9   | ★N803931-S36  |
| M8           | 24mm    | 13mm    | 14   | AM-29-J      | 9   | ★N621960-S36M |
| M6           | 13.5mm  | 9.3mm   | 15   | MM-172-G     | —   | ★808144-S     |
| M6           | 59.5mm  | 19mm    | 15   | AM-29-K      | 9   | ★N803013-S100 |

# Standard and Utility Parts Catalog

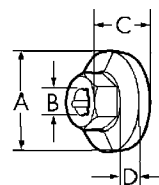
## PH-238(A) NUT and WASHER ASSY.



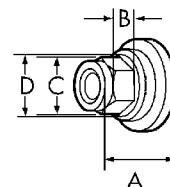
TYPE 1

TYPE 1  
(CONT.)

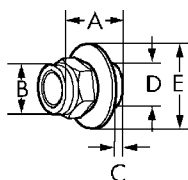
TYPE 2



TYPE 3



TYPE 4

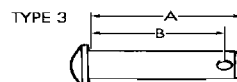
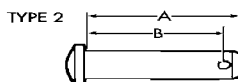
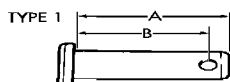


TYPE 5

PH-238A  
12/01/2003

| NOMINAL SIZE | A       | B       | C       | D       | E       | F       | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|---------|---------|---------|---------|---------|---------|------|--------------|--------------|
| M5           | 4.0mm   | —       | 1.5mm   | 8.00mm  | 8.79mm  | 13.0mm  | 1    | AM-23        | W702841-S309 |
| M6           | —       | —       | —       | 10.0mm  | 11.55mm | 19mm    | 1    | AM-3-BCC     | N811309-S301 |
| M6           | —       | —       | —       | 10.0mm  | 11.55mm | 19mm    | 1    | AM-3-BCC     | N811309-S437 |
| M6           | 7mm     | 5.4mm   | 1.6mm   | 10mm    | 11mm    | 16mm    | 1    | AM-3-BC      | W704521-S309 |
| M6           | 8mm     | 6.0mm   | 2.0mm   | 10mm    | 11.54mm | 19.0mm  | 1    | AM-3-S       | W701014-S437 |
| M8           | 11.7mm  | 9.5mm   | 2.2mm   | 15mm    | 13mm    | 22mm    | 1    | 200-300      | W700390-S309 |
| M8           | 11.7mm  | 9.5mm   | 2.2mm   | 15mm    | 13mm    | 22mm    | 1    | 200-300      | W700390-S427 |
| M8           | 18.2mm  | —       | 3.0mm   | 13.00mm | 14.38mm | 20.0mm  | 1    | AM-3-J       | W706994-S441 |
| M14          | —       | 15mm    | 1.8mm   | 21mm    | 23mm    | 33mm    | 1    | AM-3-AB      | W707251-S436 |
| M14          | —       | 15mm    | 1.8mm   | 21mm    | 23mm    | 33mm    | 1    | AM-3-AB      | W707251-S441 |
| M14          | 15mm    | —       | 1.8mm   | 21.0mm  | 23.5mm  | 29.5mm  | 1    | AM-3-G       | W710015-S440 |
| M14          | 15mm    | 8.4mm   | 2.0mm   | 36mm    | 29.2mm  | 26.75mm | 1    | AM-3-H       | W710298-S441 |
| M14          | 15mm    | 12.5mm  | 1.8mm   | 21.0mm  | 23.5mm  | 29.5mm  | 1    | AM-3-BA      | W708503-S427 |
| M16          | 23.6mm  | 11.7mm  | 2.5mm   | 24mm    | 26.75mm | 40.5mm  | 1    | AM-9-EB      | W707483-S301 |
| M16          | 23.6mm  | 19.2mm  | 2.5mm   | 24mm    | 26.75mm | 37mm    | 1    | AM-9-EA      | W708553-S901 |
| M20          | 31mm    | 14mm    | 7.5mm   | 34.64mm | —       | 48.0mm  | 1    | AM-29-KA     | W707019-S427 |
| M24          | 19.87mm | 11.30mm | 5.1mm   | 36.0mm  | 41.60mm | 48.0mm  | 1    | AM-29-T      | W710084-S439 |
| M16          | 22.3mm  | 17.3mm  | 36mm    | 24mm    | 39mm    | —       | 2    | AM-25-AA     | W707254-S427 |
| M6           | 24mm    | M6      | 6.7mm   | 0.4mm   | —       | —       | 3    | AM-39-A      | W709450-S438 |
| M6           | 15.2mm  | 9.5mm   | 12.75mm | 15.5mm  | —       | —       | 4    | AM-37-A      | W710082-S301 |
| M20          | 33.4mm  | 15.9mm  | 31mm    | 35.2mm  | —       | —       | 4    | AM-37        | W709584-S436 |
| M10          | 7.50mm  | 15.0mm  | 2.35mm  | 17.3mm  | 21.5mm  | —       | 5    | AM-37-E      | W709581-S438 |
| M22          | 21.7mm  | 29mm    | 5.1mm   | 34.4mm  | 48mm    | —       | 5    | AM-37-M      | W705967-S439 |

## PH-131 PIN — CLEVIS — END DRILLED



PH131

| DIAMETER | A        | B        | HEAD   | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|----------|----------|--------|------|--------------|--------------|
| 5/32"    | 7/8"     | 63/64"   | Flat   | 1    | NN-6-E       | ★381753-S2   |
| 1/4"     | 3/8"     | 21/32"   | Flat   | 1    | NN-7-FC      | ★130805-ES8  |
| 1/2"     | 3-3/16"  | 3-3/8"   | Flat   | 1    | NN-8-H       | ★388354-S8M  |
| 1/2"     | 3-9/16"  | 3-3/4"   | Flat   | 1    | NN-8-K       | ★387933-S    |
| 1/2"     | 3-9/16"  | 3-51/64" | Flat   | 1    | NN-8-L       | ★379041-S8   |
| 1/2"     |          | 4-3/16"  | Flat   | 1    | NN-8-N       | ★383538-S8   |
| 5/8"     | 1-19/32" | 1-27/32" | Flat   | 1    | NN-11        | ★371552-S7-8 |
| 5/8"     |          | 3-5/32"  | Flat   | 1    | NN-11-AC     | ★379662-S43  |
| 5/8"     | 3-5/8"   | 3-29/32" | Flat   | 1    | NN-11-AE     | ★380784-S2   |
| 3/4"     | 4-1/4"   | 4-9/16"  | Flat   | 1    | NN-11-AF     | ★388801-S2   |
| 1"       | 3-57/64" | 4-11/64" | Flat   | 1    | NN-11-BF     | ★380944-S7-8 |
| 1"       | 4-11/32" | 4-5/32"  | Flat   | 1    | NN-11-BG     | ★387875-S100 |
| 1"       | 4-15/32" | 4-3/4"   | Flat   | 1    | NN-118-J     | ★388052-S100 |
| 1"       | 4-13/16" | 5"       | Flat   | 1    | NN-118-L     | ★388902-S100 |
| 5/16"    | 15/16"   | 1-7/64"  | Button | 2    | NN-24        | ★389952-S2   |
| 5/16"    | 51/64"   | 15/16"   | Button | 2    | NN-24-A      | ★389953-S2   |
| 5/16"    | 3-5/32"  | 3-5/16"  | Button | 2    | NN-24-B      | ★389954-S2   |
| 5/16"    | 1-45/64" | 1-61/64" | Button | 2    | NN-24-C      | ★389955-S2   |
| 7/16"    | 1-1/64"  | 1-1/8"   | Button | 2    | NN-23        | ★357412-S13  |
| 7/16"    | 1-31/32" | 2-1/64"  | Button | 2    | NN-29        | ★357429-S13  |
| 3/8"     | 1-1/8"   | 1-1/4"   | Oval   | 3    | NN-12        | ★359236-S13  |
| 7/16"    | 31/32"   | 1-5/64"  | Oval   | 3    | NN-32        | ★370641-S8   |
| 7/16"    | 1-13/64" | 1-21/64" | Oval   | 3    | NN-35        | ★370653-S8   |
| 7/16"    | 2-1/4"   | 2-3/8"   | Oval   | 3    | NN-37        | ★354171-S13  |

### Metric

|       |         |         |      |   |         |               |
|-------|---------|---------|------|---|---------|---------------|
| M6    | 10mm    | 16mm    | Flat | 1 | AN-23-E | ★E642765-S71  |
| M7.94 | 42.75mm | 50.5mm  | Flat | 1 | AN-28-E | ★E440049-S82  |
| M9.6  | 20.32mm | 27.99mm | Flat | 1 | AN-25   | ★E440024-S82  |
| M11.8 | 39.9mm  | 45.4mm  | Flat | 1 | AN-26   | ★N801663-S40M |

## PH-130 PIN — COTTER



TYPE 1

PH-130  
12/01/2003

### Metric

| DIAMETER | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|------|--------------|--------------|
| 1.8mm    | 2.2mm  | 1    | AN-1-G       | ★N642546-S36 |
| 2.0mm    | 14mm   | 1    | AN-1-G       | W525242-S300 |
| 2.8mm    | 18mm   | 1    | AN-1-H       | ★N642564-S2  |
| 3.2mm    | 28mm   | 1    | AN-1-B       | ★E642571-S71 |
| 3.2mm    | 32mm   | 1    | AN-1-C       | N642569-S361 |
| 3.2mm    | 28mm   | 1    | AN-1-B       | ★E642571-S71 |
| 3.2mm    | 32mm   | 1    | AN-1-C       | N642569-S426 |
| 3.2mm    | 32mm   | 1    | AN-1-C       | N642569-S437 |
| 3.2mm    | 32mm   | 1    | AN-1-C       | W525287-S437 |
| 3.6mm    | 28mm   | 1    | AN-1-J       | ★N642588-S   |
| 3.6mm    | 31.2mm | 1    | AN-1-A       | ★E642568-S71 |

# Standard and Utility Parts Catalog

PH-143

PIN — DOWEL



TYPE 1



TYPE 2



TYPE 3

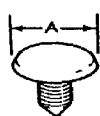
PH-143  
12/19/2002

| DIAMETER | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|------|--------------|--------------|
| 15/64"   | 13/16" | 1    | NN-54-A      | ★390146-S    |
| 1/4"     | 5/16"  | 1    | NN-54        | ★373118-S    |
| 1/4"     | 21/64" | 1    | NN-54-JB     | ★391202-S    |
| 1/4"     | 1"     | 1    | NN-54-D      | ★378492-S7-8 |
| 9/32"    | 1-1/4" | 1    | NN-54-F      | ★376577-S7-8 |
| 9/32"    | 1-3/8" | 1    | NN-54-G      | ★379300-S    |
| 5/16"    | 1"     | 1    | NN-54-JA     | ★384940-S    |
| 5/16"    | 1-3/8" | 1    | NN-54-J      | ★378189-S    |
| 3/8"     | 7/8"   | 1    | NN-61-AA     | ★385418-S    |
| 1/2"     | 13/32" | 1    | NN-61-B      | ★378644-S    |
| 1/2"     | 1"     | 1    | NN-61-A      | ★385456-S    |

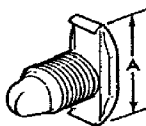
| Metric   |         |   |          |               |
|----------|---------|---|----------|---------------|
| M3       | 19.9mm  | 1 | AN-11-F  | ★N800674-S    |
| M4       | 27.50mm | 1 | AN-11-A  | ★N801214-S    |
| M6       | 21mm    | 1 | AN-11-C  | ★N805997-S    |
| M8       | 13.75mm | 1 | AN-11-J  | W701200-S     |
| M8       | 18.25mm | 1 | AN-11-GA | N806007-S     |
| M8       | 18.25mm | 1 | AN-11-GD | W706860-S     |
| M8       | 25mm    | 1 | AN-11-GC | N811194-S     |
| M8       | 45.5mm  | 1 | AN-11-GB | N806040-S     |
| M8       | 54mm    | 1 | AN-11-G  | ★N802308-S100 |
| M10      | 13.0mm  | 1 | AN-11-G  | W708265-S     |
| M10      | 18mm    | 1 | AN-11    | ★N800059-S    |
| M10      | 49.5mm  | 1 | AN-11-B  | W701501-S     |
| M10.5    | 13mm    | 1 | AN-11-K  | N804055-S     |
| M12.7    | 25mm    | 1 | AN-15-G  | N802998-S     |
| M12 & M8 | 24mm    | 2 | AN-14-K  | ★U800847-S    |
| M4       | 10mm    | 3 | NN-56-B  | W708480-S300  |
| M8       | 18.25mm | 3 | NN-56-A  | W701228-S300  |
| M8       | 22mm    | 3 | NN-56-C  | W708481-S300  |
| 8.5mm    | 82mm    | 3 | AN-11-G  | W710861-S437  |
| M10      | 40mm    | 3 | NN-56-D  | W703649-S300  |

PH-723

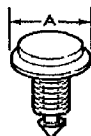
PIN — DRIVE



TYPE 1



TYPE 2



TYPE 3

PH-723

| DIAMETER | LENGTH | A      | TYPE | LOCATOR CODE | PART NUMBER    | COLOR |
|----------|--------|--------|------|--------------|----------------|-------|
| 1/8"     | 5/16"  | 13/32" | 1    | NN-165       | ★ 377163-S     |       |
| 1/4"     | 29/32" | 11/16" | 1    | NN-165-F     | 388577-S       |       |
| 9/32"    | 25/32" | 15/16" | 1    | NN-165-A     | 385661-SΔ      |       |
| 9/32"    | 25/32" | 15/16" | 1    | NN-165-B     | ★ 385661-S102Δ |       |
| 9/32"    | 25/32" | 15/16" | 1    | NN-165-C     | ★ 385661-S103Δ |       |
| 5/16"    | 29/32" | 1"     | 1    | NN-165-H     | ★ 388904-S2019 | Red   |
| 5/16"    | 29/32" | 1"     | 1    | NN-165-I     | ★ 388904-S2020 | Blue  |
| 5/16"    | 29/32" | 1"     | 1    | NN-165-J     | ★ 388904-S2021 | B/SWT |
| 5/16"    | 29/32" | 1"     | 1    | NN-165-K     | ★ 388904-S2022 | Fawn  |
| 5/16"    | 29/32" | 1"     | 1    | NN-165-L     | ★ 388904-S2023 | Opal  |
| 7/16"    | 23/32" | 17/16" | 1    | NN-165-G     | 388246-S       |       |
| 1/8"     | 13/32" | 1/2"   | 2    | NN-166       | ★ 379566-S     |       |
| 1/4"     | 5/8"   | 1"     | 2    | NN-167       | 383927-S       |       |
| 1/4"     | 7/8"   | 45/64" | 3    | NN-168       | ★ 391207-SSW   |       |

## Metric

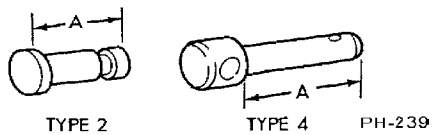
|       |         |        |   |          |                |                 |
|-------|---------|--------|---|----------|----------------|-----------------|
| M4.75 | 14.2mm  | 12.9mm | 1 | AN-63-C  | ★ W707710-S    | Parchment       |
| M5.0  | 17.8mm  | 19.0mm | 1 | AN-63-A  | ★ N801994-S    | Blue            |
| M5.8  | 15.2mm  | 25mm   | 1 | AN-63-B  | ★ N804596-S    | Black           |
| M6.0  | 24.0mm  | 10mm   | 1 | AN-111-L | N807154-SAG    | Black           |
| M7.0  | 20.5mm  | 25.5mm | 1 | AN-62    | ★ N802321-S    | Black           |
| M7.0  | 39mm    | 25.5mm | 1 | AN-63-D  | N804349-SAC    | Black           |
| M7.0  | 39mm    | 25.5mm | 1 | AN-63-DA | N804349-SAA    | Med Graphite    |
| M7.0  | 39mm    | 25.5mm | 1 | AN-63-DB | N804349-SAB    | Med Prairie Tan |
| M7.0  | 39mm    | 25.5mm | 1 | AN-63-DC | N804349-SAD    | Dk Graphite     |
| M7.0  | 39mm    | 25.5mm | 1 | AN-63-DD | N804349-SAE    | Med Parchment   |
| M7.1  | 20.3mm  | 25.4mm | 1 | AN-61    | N802224-S      | Black           |
| M10   | 26mm    | 30mm   | 1 | AN-63-E  | ★ W707819-SA   | Black           |
| M10   | 28.3mm  | 21.5mm | 1 | AN-63-F  | W706358-S300   | Black           |
| M25   | 11.5mm  | 25mm   | 1 | AN-111-K | W707175-S300   | Black           |
| M3.7  | 8.75mm  | 15.0mm | 3 | AN-60-D  | N806340-S      |                 |
| M4.8  | 14.6mm  | 8mm    | 3 | AN-60-C  | ★ N803651-S100 |                 |
| M4.8  | 19.78mm | 9mm    | 3 | AN-60-A  | ★ N804271-S    | Black           |
| M7.1  | 20.5mm  | 13.2mm | 3 | AN-60    | ★ N801925-S    |                 |

Δ Nylon



# Standard and Utility Parts Catalog

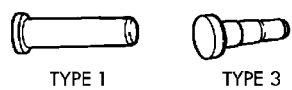
**PH-239      PIN — CLEVIS — SPECIAL**



| DIAMETER | A       | TYPE | LOCATOR CODE | PART NUMBER |
|----------|---------|------|--------------|-------------|
| 5/16"    | 55/64"  | 2    | NN-49-A      | ★ 389510-S2 |
| 3/8"     | 57/64"  | 2    | NN-49-Z      | ★ 384632-S2 |
| 1/2"     | 1-5/64" | 2    | NN-49-L      | ★ 386637-S2 |
| 19/64"   | 13/16"  | 2    | NN-50-F      | ★ 389383-S2 |
| 3/16"    | 3/4"    | 4    | NN-50-E      | ★ 388580-S8 |
| 3/16"    | 1-7/64" | 4    | NN-50-H      | ★ 388581-S8 |

| Metric   |        |      |              |                |
|----------|--------|------|--------------|----------------|
| DIAMETER | A      | TYPE | LOCATOR CODE | PART NUMBER    |
| M2.75    | 10mm   | 2    | AN-49-B      | ★ N806546-S100 |
| M6       | 26.6mm | 2    | AN-49-D      | W700001-S1309  |
| M8       | 14mm   | 2    | AN-49        | ★ E840251-S71  |
| M8       | 20mm   | 2    | AN-49-C      | ★ N803820-S55  |

**PH-133      PIN — FLATHEAD — SOLID**

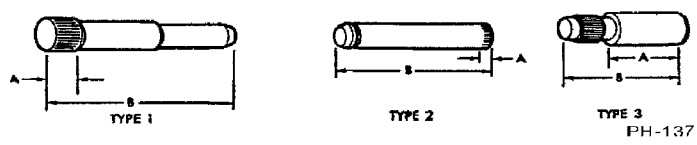


| DIAMETER | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|------|--------------|-------------|
| 3/32"    | 31/32" | 1    | NN-63-E      | ★ 385350-SΔ |
| 1/4"     | 5/8"   | 1    | NN-62-A      | ★ 378962-S  |
| 5/16"    | 2-1/4" | 1    | NN-63-AL     | ★ 386595-S2 |

| Metric |      |   |       |               |
|--------|------|---|-------|---------------|
| M4     | 18mm | 1 | AN-64 | N803926-S43B  |
| M5.8   | 18mm | 3 | AN-20 | ★ E840201-S71 |

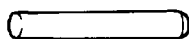
Δ Nylon

**PH-137      PIN — KNURLED STRAIGHT**

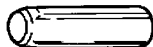


| DIAMETER  | A        | B        | TYPE | LOCATOR CODE | PART NUMBER   |
|-----------|----------|----------|------|--------------|---------------|
| 3/8"-5/8" | 1-13/16" | 2-13/16" | 3    | NN-82-DA     | ★ 383236-S100 |

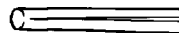
| Metric    |       |        |   |         |                |
|-----------|-------|--------|---|---------|----------------|
| M4.7      | 5mm   | 54.7mm | 1 | AN-18-A | N805856-S      |
| M5.4      | 6.5mm | 36.5mm | 1 | AN-18   | ★ N804090-S    |
| M5.4      | 6.5mm | 36.5mm | 1 | AN-18-B | ★ N804090-S100 |
| M3.7-M4.7 | 4.7mm | 49.8mm | 2 | AN-17-G | N806157-S      |
| M4.6-4.7  | 5.4mm | 42mm   | 2 | AN-17-E | N801013-S      |
| M4.7      | 5.7mm | 53.8mm | 2 | AN-17-H | N808114-S      |

**PH-136**
**PIN — GROOVE**


TYPE 1



TYPE 2



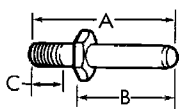
TYPE 5

PH136

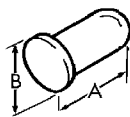
| DIAMETER | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|------|--------------|-------------|
| 3/32"    | 1/2"   | 1    | NN-70        | ★352471-S7  |
| 5/8"     | 1-1/2" | 1    | NN-70-B      | ★390498-S   |
| 5/32"    | 13/32" | 2    | NN-80-D      | ★390508-S   |
| 5/16"    | 1-1/4" | 2    | NN-80-F      | ★373794-S   |
| 5/16"    | 1-3/4" | 2    | NN-73        | ★372538-S   |
| 1/2"     | 1-1/4" | 2    | NN-75        | ★371377-S8  |
| 5/32"    | 3/8"   | 5    | NN-79-F      | ★357614-S8  |
| 3/16"    | 1-5/8" | 5    | NN-70-A      | ★357425-S*  |
| 1/4"     | 23/32" | 5    | NN-80-C      | ★376347-S   |

**Metric**

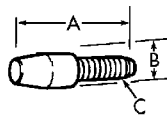
|      |      |   |         |               |
|------|------|---|---------|---------------|
| M2   | 20mm | 1 | AN-4-P  | ★E646247-S    |
| M3   | 26mm | 1 | AN-5-C  | E840125-S     |
| M4   | 26mm | 1 | AN-4-PB | W706691-S309  |
| M4.4 | 12mm | 1 | AN-4-PA | ★E840058-S76  |
| M5   | 18mm | 1 | AN-4-A  | ★E643274-S71  |
| M5   | 22mm | 2 | AN-73   | ★E643489-S71  |
| M6   | 22mm | 2 | AN-80   | W701984-S     |
| M2.5 | 10mm | 5 | AN-6-E  | ★E840121-S100 |

**PH-105**
**PIN — LOCATING**


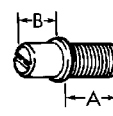
TYPE 1



TYPE 2



TYPE 3



TYPE 4

PH105

| DIAMETER | THREAD | A      | B      | C      | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------|--------|------|--------------|-------------|
| No. 8    | 32     | 1"     | 5/8"   | 23/64" | 1    | NN-124-Z     | ★382683-S36 |
| No. 10   | 32     | 1"     | 5/8"   | 21/64" | 1    | NN-125       | ★370034-S8B |
| 11/64"   |        | 3/8"   | 7/32"  |        | 2    | NN-125-E     | ★383947-S5  |
| 1/4"     |        | 7/8"   | 19/64" |        | 2    | NN-126-E     | 389130-S    |
| 1/4"     | 20     | 1-1/2" | 3/4"   | 3/4"   | 3    | NN-131-E     | ★387596-S   |

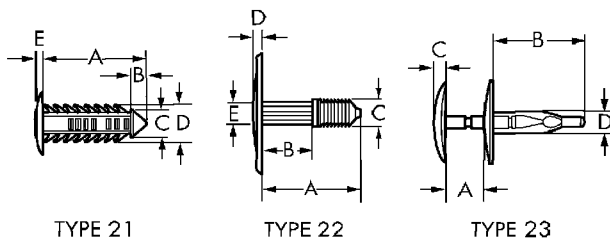
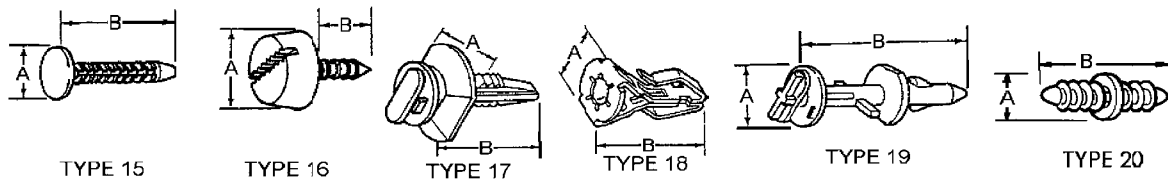
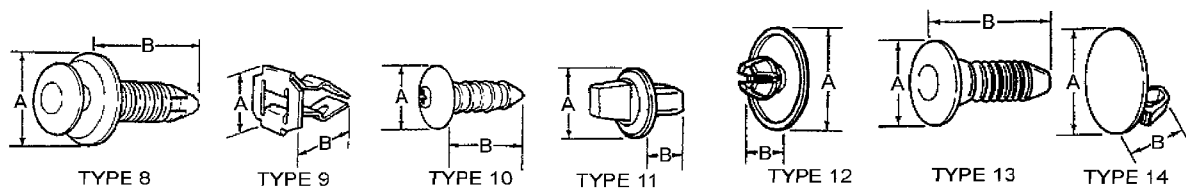
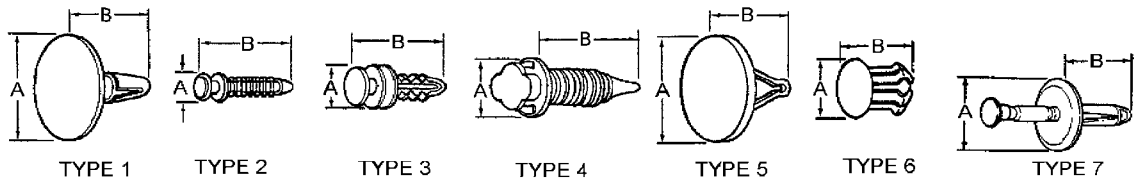
**Metric**

|      |   |        |        |     |   |         |               |
|------|---|--------|--------|-----|---|---------|---------------|
| M4.8 | — | 29.0mm | 8mm    | —   | 2 | AN-47   | ★W701891-S434 |
| M6   |   | 37mm   | 9.75mm |     | 3 | AN-50-E | ★N801436-S    |
| M10  |   | 46mm   | 19.5mm | M10 | 3 | AN-40-E | ★N801185-S    |
| M9   |   | 20mm   | 10mm   |     | 4 | AN-55-E | ★N801541-S8   |

\* 3 Grooves

PH-746

PIN — PUSH



# Standard and Utility Parts Catalog

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PH-746

PIN — PUSH (Cont'd)

| HOLE DIAMETER | A        | B        | TYPE | LOCATOR CODE | PART NUMBER  |
|---------------|----------|----------|------|--------------|--------------|
| 1/4"          | 9/16"    | 1/2"     | 1    | NN-180-D     | ★387114-S100 |
| 1/4"          | 1/4"     | 5/8"     | 1    | NN-180-DA    | ★375372-S    |
| 1/4"          | 1-13/64" | 25/32"   | 1    | NN-180       | 386553-S     |
| 1/4"          | 1-3/4"   | 25/32"   | 1    | NN-180-A     | 388908-S     |
| 1/4"          | 3/4"     | 35/64"   | 1    | NN-180-B     | ★388403-S    |
| 1/4"          | 1"       | 1-3/16"  | 1    | NN-180-G     | 388930-S     |
| 9/32"         | 1"       | 15/16"   | 1    | NN-180-C     | 388904-S     |
| 5/16"         | 5/8"     | 1-3/4"   | 2    | NN-180-F     | ★387979-S    |
| 9/16"         | 31/32"   | 1-1/8"   | 2    | NN-180-J     | ★387496-S    |
| 1/4"          | 3/4"     | 31/32"   | 3    | NN-182-E     | ★387477-S    |
| 9/32"         | 25/32"   | 15/16"   | 3    | NN-182-C     | ★388499-S    |
| 11/32"        | 1/2"     | 15/16"   | 3    | NN-182-D     | ★388319-S    |
| 23/64"        | 17/32"   | 1-1/8"   | 3    | NN-182-CC    | 389144-S     |
| 1/4"          | 1"       | 1-15/64" | 10   | NN-180-DD    | 391039-S     |
| 5/16"         | 45/64"   | 39/64"   | 10   | NN-180-K     | 389358-S     |
| 5/16"         | 45/64"   | 1-1/16"  | 10   | NN-180-L     | 390018-S     |
| 1/14"         | 45/64"   | 51/64"   | 10   | NN-180-M     | ★391207-S    |
| 1/14"         | 17/32"   | 55/64"   | 13   | NN-180-P     | 390964-S     |

## Metric

|        |         |         |   |         |               |
|--------|---------|---------|---|---------|---------------|
| 6.3    | 44.5mm  | 27mm    | 1 | AN-3-U  | ★N803387-S    |
| 6.3    | 44.5mm  | 27mm    | 1 | AN-3-U  | N803387-S300  |
|        | 10mm    | 18.5mm  | 1 | AN-3-H  | N801408-S     |
|        | 14mm    | 8.7mm   | 1 | AN-3-W  | N803857-S     |
| M6     | 30.0mm  | 22.7mm  | 1 | AN-3-X  | N804537-S     |
| M7     |         | 30.5mm  | 1 | AN-3-G  | N800387-S     |
| —      | 20mm    | 14.7mm  | 1 | AN-3-UA | W706090-S300  |
| M7.0   | 13.0mm  | 42.4mm  | 2 | AN-3-TB | N807875-S     |
| M7.0   | 13.0mm  | 16.8mm  | 2 | AN-3-TC | N807874-S     |
| M7.1   | 16.00mm | 16.50mm | 2 | AN-3-R  | W709315-S300  |
| M7.9   | 13mm    | 34.3mm  | 2 | AN-3-KA | N805766-S     |
| 9.7mm  | 12.9mm  | 24.2mm  | 2 | AN-3-TA | W709315-S300  |
| M10    | 25.4mm  | 29.2mm  | 2 | AN-3-KE | W709453-S300  |
| M7.0   | 13.0mm  | 9.8mm   | 3 | AN-2-H  | N811006-S     |
| M7     | 15.75mm | 18.3mm  | 5 | AN-3-N  | ★N802525-S100 |
| M8.5   | 16.8mm  | 22.4mm  | 5 | AN-3-NA | ★N802144-S74  |
| M5     | 6.6mm   | 8mm     | 6 | AN-3-M  | ★N802407-S100 |
| M6     | 13.9mm  | 8.7mm   | 6 | AN-3-A  | ★N804093-S53  |
| M4.0   | 11.3mm  | 4.5mm   | 7 | AN-3-ZZ | W705581-S300  |
| M6.2   | 25.4mm  | 28.5mm  | 7 | AN-3-MC | ★N803825-S    |
| M6.35  | 25.4mm  | 23mm    | 7 | AN-3-MB | N802781-S     |
| M7.0   | 15.6mm  | 13.0mm  | 7 | AN-3-MF | ★N807873-S    |
| M10.2  | 17.8mm  | 22.0mm  | 7 | AN-3-ME | ★N803362-S    |
| M4.95  | 12mm    | 31.6mm  | 8 | AN-3-D  | W705483-S     |
| M6.3   | 17.8mm  | 17.5mm  | 8 | AN-3-GE | ★N808147-SSW  |
| M6.5   | 16mm    | 12.35mm | 8 | 550-090 | W700219-S300  |
| M7.1   | 13.2mm  | 16.4mm  | 8 | AN-3-GC | ★N801925-S    |
| M7.1   | 12.7mm  | 17.4mm  | 8 | AN-3-GF | N808994-S     |
| M4.76  | 20.0mm  | 20.0mm  | 8 | AN-3-PT | ★N807175-S    |
| M5     | 13.2mm  | 15.2mm  | 8 | AN-3-PG | N806794-S     |
| 5mm    | 19.6mm  | 24.4mm  | 8 | AN-3-PH | W707741-S300  |
| M6.3   | 17.8mm  | 19.0mm  | 8 | AN-3-PU | N808332-S     |
|        | 15.3mm  | 24.1mm  | 8 | AN-3-PE | ★N805612-S    |
| M6.5   | 16mm    | 12.35mm | 8 | AN-3-PU | W700219-S300  |
| M7.6   | 11.5mm  |         | 8 | AN-3-PS | ★N808033-S    |
| M7.14  | 8mm     | 19.8mm  | 8 | 550-090 | N807943-S     |
| M7.14  | 19.6mm  | 17.42mm | 8 | AN-3-PB | N802900-S     |
| M7.14  | 19mm    | 20.45mm | 8 | AN-3-P  | N802290-S     |
| M7.1   | 19mm    | 20.5mm  | 8 | AN-3-PE | N805155-S     |
| M7.13  | 24mm    | 17.7mm  | 8 | AN-3-PC | ★N801320-S    |
| M8.0mm | 11.8mm  | 18.0mm  | 8 | AN-3-PC | W710250-S300  |
| M9.0   | 19.5mm  |         | 8 | AN-3-PW | ★W706738-S300 |

(continued)

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Standard and Utility Parts Catalog

PH-746

PIN — PUSH (Cont'd)

Metric (Cont'd)

| HOLE DIAMETER | A           | B       | TYPE | LOCATOR CODE | PART NUMBER   |
|---------------|-------------|---------|------|--------------|---------------|
| M9.4          | 13mm        | —       | 8    | AN-3-PZ      | W706519-S300  |
| —             | 19.5mm      | 24.9mm  | 8    | AN-3-PJ      | W707779-S300  |
| 8.35mm        | 18mm        | 20mm    | 8    | AN-3-PD      | W708227-S300  |
| 22mm          | 15.9mm      | —       | 8    | AN-3-PX      | W707547-S300  |
| M4.8          | 8.5mm       | 22.3mm  | 9    | AN-3-KD      | N802414-S     |
|               | 14mm x 16mm | 26.5mm  | 9    | AN-3-KB      | N804192-S2    |
|               | 15mm        | 21.65mm | 9    | AN-3-KC      | ★N802606-S32B |
| 4.75mm        | 11.10mm     | 16.5mm  | 10   | AN-3-BD      | N808134-S     |
| M4.75         | 19.1mm      | 12.20mm | 10   | AN-3-BC      | N807951-S     |
| M4.8          | 12.0mm      | 20.2mm  | 10   | AN-3-BM      | N807279-S100  |
| M4.8          | 12mm        | 15.2mm  | 10   | AN-3-BA      | ★N805337-S40  |
| M4.8          | 12mm        | 15.2mm  | 10   | AN-3-BB      | ★N805794-SW   |
| M4.8          | 12.0mm      | 20.2mm  | 10   | AN-3-BL      | ★N806532-SAG  |
| M4.8          | 12.0mm      | 20.2mm  | 10   | AN-3-BF      | ★N806532-SAJ  |
| M4.8          | 12.0mm      | 20.2mm  | 10   | AN-3-BG      | N806532-SAU   |
| M4.8          | 12.0mm      | 20.2mm  | 10   | AN-3-BH      | ★N806532-SA1  |
| M4.8          | 12.0mm      | 20.2mm  | 10   | AN-3-BJ      | ★N806532-SA7  |
| M4.8          | 12.0mm      | 20.2mm  | 10   | AN-3-BK      | ★N806532-SBD  |
| M5            | 21.0mm      | 17.5mm  | 10   | AN-3-BN      | W701418-S300  |
| M5            | 25.5mm      | 18.5mm  | 10   | AN-3-SK      | N802734-S     |
| M5.9          | 12.7mm      | 24mm    | 10   | AN-3-B       | ★N804448-S    |
| M6.3          | 18.5mm      | 11mm    | 10   | AN-3-BE      | N803678-S     |
| M7            | 12mm        | 20mm    | 10   | AN-3-SB      | N801023-S     |
| M7            | 16mm        | 35mm    | 10   | AN-3-SH      | ★N806441-S    |
| M7.0          | 32mm        | 20.5mm  | 10   | AN-3-BS      | ★N805200-S    |
| M9            | 19mm        | 16mm    | 10   | AN-3-SL      | N807721-S     |
| M5.4          | 25mm        | 23.5mm  | 10   | AN-3-BP      | N808370-SSW   |
| M6.4          | 31.8mm      | 14mm    | 10   | AN-3-SL      | ★N807564-S    |
| M7.50         | 32.0mm      | 16.7mm  | 10   | AN-3-BT      | N808842-S     |
| M7.6          | 12.6mm      | 22.5mm  | 10   | AN-3-SN      | N805636-SD    |
| M7.6          | 12.6mm      | 22.5mm  | 10   | AN-3-SP      | ★N805636-SE   |
| M7.6          | 12.6mm      | 22.5mm  | 10   | AN-3-SQ      | ★N805636-SK   |
| M7.6          | 12.6mm      | 22.5mm  | 10   | AN-3-SR      | ★N805636-SY   |
| M6.3          | 16mm        | 11.0mm  | 10   | AN-3-BR      | N808628-SSW   |
| M7.14         | 32mm        | 19.85mm | 10   | AN-3-SE      | ★N805315-SF8Z |
| M8.25         | 25.5mm      | 20mm    | 10   | AN-3-S       | N802734-S0U   |
|               | 32mm        | 20.5mm  | 10   | AN-3-SF      | N805200-SE6D  |
| M8.9          | 21.5mm      | 28.3mm  | 10   | AN-3-SA      | N804379-S     |
|               | 28mm        | 7.3mm   | 11   | AN-3-V       | ★N804094-S    |
|               | 28mm        | 7.8mm   | 11   | AN-3-VE      | N804536-S     |
|               | 28mm        | 20mm    | 11   | AN-3-T       | ★N803568-S    |
| M6.5          | 26mm        | 10mm    | 12   | AN-2-W       | N808645-S     |
| M7.2          | 19mm        | 4.5mm   | 12   | AN-3-C       | ★N804505-S    |
| M4.75         | 12.1mm      | 13.9mm  | 13   | AN-65-AJ     | ★W705635-S    |
| M4.8          | 12.0mm      | 12.0mm  | 13   | AN-65-AC     | N808887-SSW   |
| M4.8          | 20mm        | 19.5mm  | 13   | AN-65        | ★E866249-S    |
| —             | 34.9mm      | 17.8mm  | 13   | AN-65-AX     | W706826-S300  |
| M4.9          | 16mm        | 20mm    | 13   | AN-65-D      | N808156-S     |
| M5.0          | —           | 26.25mm | 13   | AN-65-AD     | ★W701649-S    |
| M6.0          | 15.0mm      | 18.9mm  | 13   | AN-65-AE     | N808658-SSD   |
| M6.0          | 15.0mm      | 18.9mm  | 13   | AN-65-AF     | ★N808658-SSF  |
| M6.0          | 15.0mm      | 18.9mm  | 13   | AN-65-AG     | ★N808658-SSK  |
| M6.0          | 15.0mm      | 18.9mm  | 13   | AN-65-AH     | N808658-SSY   |
| M6.3          | 19mm        | 16.6mm  | 13   | AN-65-AB     | N805879-S     |
| M6.3          | 26.0mm      | 30.5mm  | 13   | AN-65-F      | W710923-S300  |
| M6.3          | 44.5mm      | 24.5mm  | 13   | AN-65-AA     | N803613-S     |
| M6.4          | 17.75mm     | 23.50mm | 13   | AN-65-ZZ     | W705589-S     |
| M6.4          | 17.75mm     | 23.50mm | 13   | AN-65-ZZ     | W705589-SAA   |
| M6.4          | 17.75mm     | 23.50mm | 13   | AA-65-ZA     | W705589-SAB   |
| M6.4          | 17.75mm     | 23.50mm | 13   | AN-65-ZZ     | W705589-S300  |
| M6.4          | 17.75mm     | 23.50mm | 13   | AN-65-ZZ     | W705589-S900  |
| M6.4          | 17.75mm     | 23.50mm | 13   | AA-65-WA     | W705955-SAA   |

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PIN — PUSH (Cont'd)

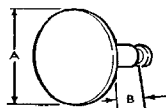
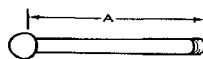
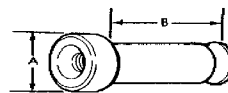
Metric (Cont'd)

| HOLE DIAMETER | A       | B       | TYPE | LOCATOR CODE | PART NUMBER      |
|---------------|---------|---------|------|--------------|------------------|
| M6.7          | 7.9mm   | 37.5mm  | 13   | AN-65-G      | N807155-SSW      |
| M6.8          | 23.0mm  | 19.8mm  | 13   | AN-65-H      | ★ W706815-S300   |
| M6.8          | 26.0mm  | 30.5mm  | 13   | AN-65-K      | W706635-SSA      |
| M6.8          | 26.0mm  | 30.5mm  | 13   | AN-65-K      | W706635-SSW      |
| M7.0          | 12.0mm  | 15.0mm  | 13   | AN-66-C      | N811040-S        |
| M7.5          | 8.5mm   | 19.5mm  | 13   | AN-66-BA     | W709570-S300     |
| M7.5          | 20mm    | 24mm    | 13   | AN-65-A      | ★ E866110-S      |
| M7.5          | 25.9mm  | 17.0mm  | 13   | AN-66-B      | N806113-S        |
| M8            | 25.5mm  | 23.0mm  | 13   | AN-65-J      | W706545-S300     |
| M11           | 19mm    | 25.4mm  | 13   | AA-65-WB     | N811191-S        |
| M7.0          | 30.0mm  | 20.3mm  | 14   | AN-66-A      | N807138-S        |
| 7.5mm         | 40.0mm  | 12.3mm  | 14   | AN-66-E      | W709767-S300     |
| M13.2         | 43mm    |         | 14   | AN-66        | ★ E852088-S      |
| M4            | 15mm    | 20mm    | 15   | AN-67-B      | ★ N860248-S      |
| M5.0          | 11.0mm  | 12.20mm | 15   | AN-67-C      | N803170-S        |
| M5            | 11.1mm  | 35mm    | 15   | AN-67-G      | N800505-S        |
| M6            | 12.6mm  | 30.0mm  | 15   | AN-67-E      | N805835-S        |
| M6            | 17.78mm | 37mm    | 15   | AN-67-N      | ★ W705755-SSYBB8 |
| M7.0          | 6.7mm   | 27mm    | 15   | AN-67-F      | N808983-SSW      |
| M7.6          |         | 38.5mm  | 15   | AN-3-TD      | N808552-S        |
| M7.6          | 12.6mm  | 38.1mm  | 15   | AN-67-D      | N805635-S        |
| M8.6          | 25.4mm  | 37.5mm  | 15   | AN-67-A      | ★ N806344-S      |
| M25.5         | 39mm    |         | 15   | AN-67        | N804349-S        |
| M32           | 50mm    | 4.5mm   | 15   | AN-67-M      | ★ W703859-S300   |
| M7.1          | 40mm    | 10mm    | 16   | AN-68-E      | ★ N805049-S      |
| M7.1          | 19mm    | 22.6mm  | 17   | AN-69-E      | ★ N805014-S      |
| M7.3          | 14.0mm  | 26.5mm  | 18   | AN-3-SS      | ★ N804741-S2     |
| M7.3          | 26.5mm  | 16.0mm  | 18   | AN-3-SG      | N806031-S32B     |
| M7.5          | 14.5mm  | 27.0mm  | 18   | AN-3-ST      | N811051-S32      |
| M4.75         | 11.0mm  | 22.41mm | 19   | AN-4-C       | N811214          |
| M4.75         | 11.0mm  | 29.41mm | 19   | AN-4-B       | N811215          |
| M4.75         | 11.0mm  | 39.41mm | 19   | AN-4-D       | ★ N811216        |
| M6.2          | 7.0mm   | 17.5mm  | 19   | AN-4-E       | N808048-S        |
| M6.35         | 12.7mm  | 32.4mm  | 20   | AN-4-F       | N811055-S        |

| DIAMETER | A      | B      | TYPE | COLOR           | LOCATOR CODE | PART NUMBER     |
|----------|--------|--------|------|-----------------|--------------|-----------------|
| 33.0mm   | 8.5mm  | 44.5mm | 2    | Lt Parchment    | AN-3-Y       | W710041-SS3BJ   |
| 33.0mm   | 8.5mm  | 44.5mm | 2    | Lt Flint        | AN-3-Y       | W710041-SS32N   |
| 33.0mm   | 8.5mm  | 44.5mm | 2    | Med Lt Pebble   | AN-3-Y       | W710041-SS33T   |
| 33.0mm   | 8.5mm  | 44.5mm | 2    | Black           | AN-3-Y       | W710041-SS33ZH  |
| M6.3     | 16mm   | 11.0mm | 10   | Med Pebble      | AN-3-BR      | N808628-ST3AG   |
| M6.3     | 16mm   | 11.0mm | 10   | Med Parchment   | AN-3-BR      | N808628-SBJCW   |
| M6.5     | 18.0mm | 35.5mm | 10   | Black           | AN-3-BU      | W709002-SAA     |
| M6.5     | 18.0mm | 35.5mm | 10   | Arizona Beige   | AN-3-BV      | W709002-SBA     |
| M7       | 25.4mm | 24mm   | 10   | Med Parchment   | AN-3-SHA     | N807535-SBJ     |
| M7       | 25.4mm | 24mm   | 10   | Dark Parchment  | AN-3-SHA     | N807535-SBB     |
| M7       | 25.4mm | 24mm   | 10   | Med Flint       | AN-3-SHA     | N807535-SN2     |
| M7       | 25.4mm | 24mm   | 10   | Mocha           | AN-3-SHA     | N807535-SSD     |
| M7       | 25.4mm | 24mm   | 10   | Tan King Ranch  | AN-3-SHA     | N807535-SSU     |
| M7       | 25.4mm | 24mm   | 10   | Med Flint       | AN-3-SHA     | N807535-S32NC   |
| M7       | 25.4mm | 24mm   | 10   | Charcoal Black  | AN-3-SHA     | N807535-S35B8   |
| M6       | 30.0mm | 26.0mm | 13   | Lt Parchment    | AN-65-KA     | N806469-BJAF    |
| M6       | 30.0mm | 26.0mm | 13   | Lt Flint        | AN-65-KB     | N806469-N2B5    |
| M6.5     | 30.0mm | 28mm   | 13   | Lt Parchment    | AN-65-MA     | W709691-BJAF    |
| M6.5     | 30.0mm | 28mm   | 13   | Lt Flint        | AN-65-MB     | W709691-N2B5    |
| M6.7     | 7.9mm  | 37.5mm | 13   | Non Color       | AN-54-GA     | N807155-SA      |
| M6.7     | 7.9mm  | 37.5mm | 13   | Med Prairie Tan | AN-65-GB     | N807155-SAA     |
| M6.7     | 7.9mm  | 37.5mm | 13   | Med Parchment   | AN-65-GK     | N807155-SBJDH   |
| M6.7     | 7.9mm  | 37.5mm | 13   | Saddle          | AN-65-GC     | ★ N807155-SDEAD |
| M6.7     | 7.9mm  | 37.5mm | 13   | Lapis           | AN-65-GD     | N807155-SKVAG   |
| M6.7     | 7.9mm  | 37.5mm | 13   | Dk Denim Blue   | AN-65-GL     | N807155-SKYC9   |

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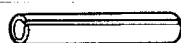
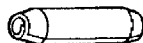
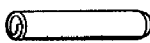
| 206      |        | Standard and Utility Parts Catalog |        |       |       |                  |                 |              |                |
|----------|--------|------------------------------------|--------|-------|-------|------------------|-----------------|--------------|----------------|
| PH-746   |        | PIN — PUSH (Cont'd)                |        |       |       |                  |                 |              |                |
| Diameter | A      |                                    | B      |       | Type  |                  | Color           | Locator Code | Part Number    |
| M6.7     | 7.9mm  |                                    | 37.5mm |       | 13    |                  | Dark Graphite   | AN-65-GE     | N807155-SSB    |
| M6.7     | 7.9mm  |                                    | 37.5mm |       | 13    |                  | Willow          | AN-65-GF     | N807155-SSGAC  |
| M6.7     | 7.9mm  |                                    | 37.5mm |       | 13    |                  | Med Pebble      | AN-65-GM     | N807155-ST3A2  |
| M6.7     | 7.9mm  |                                    | 37.5mm |       | 13    |                  | Med Graphite    | AN-65-GG     | N807155-SZUD4  |
| M6.7     | 7.9mm  |                                    | 37.5mm |       | 13    |                  | Med Flint       | AN-65-GH     | N807155-SN2B1  |
| M6.7     | 7.9mm  |                                    | 37.5mm |       | 13    |                  | Ebony           | AN-65-GJ     | N807155-SZHA0  |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Dark Graphite   | AN-66-D      | W708761-SSA    |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Med Prairie Tan | AN-66-D      | W708761-SSB    |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Black           | AN-66-D      | W708761-SSBJAB |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Lt Parchment    | AN-66-D      | W708761-SSBJE  |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Lt Flint        | AN-66-D      | W708761-SSC    |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Med Granite     | AN-66-D      | W708761-SSE    |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Dk Parchment    | AN-66-D      | W708761-SSF    |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Ebony           | AN-66-D      | W708761-SSZHA  |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Black           | AN-66-D      | W708761-SS3JA  |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Med Dk Flint    | AN-66-D      | W708761-SS32N  |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Med Pebble      | AN-66-D      | W708761-SS33T  |
| M7.0     | 25.9mm |                                    | 24.0mm |       | 13    |                  | Charcoal Black  | AN-66-D      | W708761-SS35B  |
| 8.0mm    | 19.3mm |                                    | 34.8mm |       | 13    |                  | Med Dk Graphite | AN-66-E      | W705372-AAF    |
| 8.0mm    | 19.3mm |                                    | 34.8mm |       | 13    |                  | Midnight Black  | AN-66-E      | W705372-AAG    |
| 8.0mm    | 19.3mm |                                    | 34.8mm |       | 13    |                  | Dove Grey       | AN-66-E      | W705372-SSN4B  |
| M9.0     | 24mm   |                                    | 19mm   |       | 13    |                  | Med Graphite    | AN-65-LA     | W705681-ZUCR   |
| M9.0     | 24mm   |                                    | 19mm   |       | 13    |                  | Ebony           | AN-65-LB     | W705681-ZUCR   |
| M9.0     | 24mm   |                                    | 19mm   |       | 13    |                  | Med Parchment   | AN-65-LD     | W705681-BJBT   |
| M9.0     | 24mm   |                                    | 19mm   |       | 13    |                  | Dark Graphite   | AN-65-LE     | W705681-ZUD6   |
| M9.0     | 24mm   |                                    | 19mm   |       | 13    |                  | Midnight Black  | AN-54-LC     | W705681-SSZ    |
| M8.6     | 25.4mm |                                    | 37.5mm |       | 15    |                  | Med Prairie Tan | AN-67-AA     | N806344-SSAYC  |
| M8.6     | 25.4mm |                                    | 37.5mm |       | 15    |                  | Willow          | AN-67-AB     | N806344-SSGA   |
| M8.6     | 25.4mm |                                    | 37.5mm |       | 15    |                  | Med Pebble      | AN-67-AD     | N806344-SST3A  |
| M8.6     | 25.4mm |                                    | 37.5mm |       | 15    |                  | Ebony           | AN-67-AD     | N806344-SSZHA  |
| M8.6     | 25.4mm |                                    | 37.5mm |       | 15    |                  | Med Dk Flint    | AN-67-AD     | N806344-SS32N  |
| M8.6     | 25.4mm |                                    | 37.5mm |       | 15    |                  | Dark Graphite   | AN-67-AD     | N806344-SSZUE  |
| M8.6     | 25.4mm |                                    | 37.5mm |       | 15    |                  | Med Graphite    | AN-67-AE     | N806344-SSZU4  |
| M8.6     | 25.4mm |                                    | 37.5mm |       | 15    |                  | Dark Denim Blue | AN-67-C      | N806344-SSKY   |
| Diameter | A      | B                                  | C      | D     | E     | Color            | Type            | Locator Code | Part Number    |
| 13.0mm   | 22.5mm | 3.6mm                              | 5.75mm | 7.6mm | —     | —                | 21              | AN-67-M      | W709473-S300   |
| 19.0mm   | 28.8mm | —                                  | 6.85mm | 8.1mm | 2.5mm | Ebony            | 21              | AN-67-RH     | W709571-SSZHC  |
| 19.0mm   | 28.8mm | —                                  | 6.85mm | 8.1mm | 2.5mm | Light Flint      | 21              | AN-67-RG     | W709571-SS32N  |
| 19.3mm   | 34.8mm | —                                  | 8.0mm  | —     | 2.8mm | Med Graphite     | 21              | AN-67-RA     | W705374-AAA    |
| 19.3mm   | 34.8mm | —                                  | 8.0mm  | —     | 2.8mm | Dk Parchment     | 21              | AN-67-RB     | W705374-AAC    |
| 19.3mm   | 34.8mm | —                                  | 8.0mm  | —     | 2.8mm | Med Dk Parchment | 21              | AN-67-RC     | W705374-AAD    |
| 19.3mm   | 34.8mm | —                                  | 8.0mm  | —     | 2.8mm | Dk Denim Blue    | 21              | AN-67-RD     | W705374-AAE    |
| 19.3mm   | 34.8mm | —                                  | 8.0mm  | —     | 2.8mm | Black Ink        | 21              | AN-67-RE     | W705374-AAF    |
| 19.3mm   | 34.8mm | —                                  | 8.0mm  | —     | 2.8mm | Med Lt Stone     | 21              | AN-67-RF     | W705374-AAG    |
| 23.0mm   | 19.8mm | 4.8mm                              | 6.2mm  | 8.0mm | 2.6mm | Black            | 21              | AN-67-PA     | W706815-SSA    |
| 23.0mm   | 19.8mm | 4.8mm                              | 6.2mm  | 8.0mm | 2.6mm | Med Flint        | 21              | AN-67-PB     | W706815-SSB    |
| 23.0mm   | 19.8mm | 4.8mm                              | 6.2mm  | 8.0mm | 2.6mm | Med Pebble       | 21              | AN-67-PC     | W706815-SSC    |
| 32.0mm   | 30.0mm | 5.8mm                              | 6.9mm  | 8.6mm | 3.0mm | Lt Parchment     | 21              | AN-67-SA     | W709343-SSA    |
| 32.0mm   | 30.0mm | 5.8mm                              | 6.9mm  | 8.6mm | 3.0mm | Lt Flint         | 21              | AN-67-SB     | W709343-SSB    |
| 18mm     | 32.0mm | 11mm                               | —      | 2.5mm | 5.5mm | Nylon            | 22              | AN-67-H      | W710312-S300   |
| 35.0mm   | 28.0mm | 15.2mm                             | 7.4mm  | 3.0mm | 5.5mm | Lt Parchment     | 22              | AN-67-TA     | W710454-SSA    |
| 35.0mm   | 28.0mm | 15.2mm                             | 7.4mm  | 3.0mm | 5.8mm | Dove Grey        | 22              | AN-67-TB     | W710454-SSB    |
| 35.0mm   | 28.0mm | 15.2mm                             | 7.4mm  | 3.0mm | 5.5mm | Camel            | 22              | AN-67-TC     | W710454-SSC    |
| 35.0mm   | 28.0mm | 15.2mm                             | 7.4mm  | 3.0mm | 5.5mm | Med Ash          | 22              | AN-67-TB     | W710454-SSD    |
| 12.7mm   | 13.3mm | —                                  | 5.5mm  | —     | —     | Nylon            | 23              | WH-99        | W710378-S300   |
| 24.4mm   | 11.0mm | 28.5mm                             | 3.0mm  | 6.2mm | —     | Medium Dove      | 23              | WH-100       | W709950-SSA    |
| 24.4mm   | 11.0mm | 28.5mm                             | 3.0mm  | 6.2mm | —     | Camel            | 23              | WH-100-A     | W709950-SSB    |
| 24.4mm   | 11.0mm | 28.5mm                             | 3.0mm  | 6.2mm | —     | Charcoal Black   | 23              | WH-100-A     | W709950-SSC    |

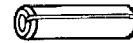
**PH-134**
**PIN — ROUND HEAD — SOLID**

**TYPE 1**

**TYPE 2**

**TYPE 3**
**PH-134**

| DIAMETER | A       | B        | TYPE | LOCATOR CODE | PART NUMBER |
|----------|---------|----------|------|--------------|-------------|
| 5/16"    | 5/8"    | 3/4"     | 1    | NN-150       | ★354169-S13 |
| 5/16"    | 5/8"    | 1-3/64"  | 1    | NN-150-E     | ★359222-S13 |
| 5/16"    | 57/64"  | 1-3/8"   | 1    | NN-150-F     | ★389946-S2  |
| 23/64"   | 3/4"    | 1-1/4"   | 1    | NN-150-J     | ★389949-S2  |
| 3/8"     | 1-1/2"  | 63/64"   | 1    | NN-153       | ★357545-S13 |
| 7/16"    | 3/4"    | 11/16"   | 1    | NN-44        | ★354744-S13 |
| 7/16"    | 1-9/16" | 2-19/64" | 1    | NN-150-G     | ★389947-S2  |
| 5/16"    | 1/2"    | 7/8"     | 3    | NN-150-H     | ★389948-S2  |
| No. 10   | 1-5/32" | 5/8"     | 3    | NN-150-HH    | ★391226-S2  |

**Metric**

|       |     |      |   |       |             |
|-------|-----|------|---|-------|-------------|
| M4.76 | 7mm | 54mm | 2 | AN-13 | ★N802716-S2 |
|-------|-----|------|---|-------|-------------|

**PH-138**
**PIN — ROLL or SPRING**

**TYPE 1**

**TYPE 2**

**TYPE 3**

**TYPE 4**

**TYPE 5**
**PH-138**

| DIAMETER | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|------|--------------|--------------|
| 3/32"    | 3/4"   | 1    | NN-87        | ★354262-S    |
| 1/8"     | 11/16" | 1    | NN-97        | ★354132-S    |
| 3/32"    | 5/16"  | 1    | NN-84-G      | 305015-S     |
| 3/32"    | 3/8"   | 1    | NN-84-D      | ★305018-S2   |
| 1/8"     | 3/8"   | 1    | NN-99-E      | ★305019-S    |
| 1/8"     | 5/8"   | 1    | NN-99-G      | ★305039-S7-8 |
| 1/8"     | 3/4"   | 1    | NN-98        | ★353925-S    |
| 1/8"     | 7/8"   | 1    | NN-99        | ★352146-S    |
| 1/8"     | 1"     | 1    | NN-99-C      | ★305076-S    |
| 1/8"     | 1-1/8" | 1    | NN-99-H      | ★305084-S    |
| 1/8"     | 1-1/2" | 1    | NN-105       | ★357883-S8   |
| 5/32"    | 5/16"  | 1    | NN-106       | ★352748-S2   |
| 5/32"    | 7/16"  | 1    | NN-89-G      | ★306301-S    |
| 5/32"    | 13/16" | 1    | NN-106-E     | ★305060-S8   |
| 3/16"    | 13/16" | 1    | NN-109-B     | ★305061-S    |
| 3/16"    | 7/8"   | 1    | NN-109-C     | ★305066-S    |
| 3/16"    | 1"     | 1    | NN-109-D     | 305078-S     |
| 3/16"    | 1"     | 1    | NN-108       | ★357479-S15  |
| 3/16"    | 1"     | 1    | NN-108       | 357479-S300  |
| 3/16"    | 1-1/8" | 1    | NN-108-A     | ★305086-S    |
| 3/16"    | 1-1/4" | 1    | NN-108-B     | ★305093-S2   |
| 3/16"    | 1-1/2" | 1    | NN-108-C     | 305110-S     |
| 7/32"    | 1-1/2" | 1    | NN-111       | ★353698-S    |
| 1/4"     | 1"     | 1    | NN-113       | ★305080-S    |
| 1/4"     | 1-1/4" | 1    | NN-114       | ★353647-S8   |
| 1/4"     | 1-1/4" | 1    | NN-114-A     | ★305095-S8   |
| 1/4"     | 1-3/8" | 1    | NN-114-E     | 305105-S     |
| 1/4"     | 1-3/4" | 1    | NN-116       | ★359475-S    |

(continued)



| PH-138      PIN — ROLL or SPRING (Cont'd) |         |      |              |               |
|---|---------|------|--------------|---------------|
| DIAMETER                                  | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER   |
| 1/4"                                      | 2-1/4"  | 1    | NN-117       | ★305140-S     |
| 3/8"                                      | 5/16"   | 1    | NN-123-E     | ★388966-S2    |
| 3/8"                                      | 2-3/4"  | 1    | NN-124       | ★359628-S2    |
| 3/8"                                      | 3"      | 1    | NN-124-A     | ★305155-S2    |
| 7/16"                                     | 5/16"   | 1    | NN-123-F     | ★388965-S2    |
| 1/2"                                      | 9/16"   | 1    | NN-124-E     | ★388192-S     |
| 3/32"                                     | 7/16"   | 2    | NN-124-ZA    | ★384758-S     |
| 3/32"                                     | 1-3/16" | 2    | NN-124-ZC    | ★305058-S     |
| 1/8"                                      | 21/64"  | 2    | NN-124-ZL    | ★387388-S     |
| 5/16"                                     | 1-1/2"  | 2    | NN-124-ZR    | ★305113-S2    |
| 1/8"                                      | 5/16"   | 3    | NN-109-R     | 387580-S2     |
| 3/16"                                     | 1"      | 3    | NN-109-V     | 384714-S2     |
| 3/16"                                     | 1-1/8"  | 3    | NN-109-W     | ★384715-S2    |
| 3/16"                                     | 1-9/64" | 3    | NN-109-F     | 390022-S2     |
| 3/16"                                     | 1-1/2"  | 3    | NN-109-X     | 67847-S       |
| 7/32"                                     | 1-1/8"  | 3    | NN-110       | ★370286-S     |
| 1/8"                                      | 5/16"   | 4    | NN-110-M     | ★388014-S     |
| 7/64"                                     | 9/16"   | 5    | NN-122-A     | ★305032-S2    |
| 5/16"                                     | 1-5/8"  | 5    | NN-122-B     | ★306330-S2    |
| 5/16"                                     | 2"      | 5    | NN-122-G     | ★305136-S7    |
| 15/32"                                    | 7/16"   | 5    | NN-122       | ★390190-S2    |
| Metric                                    |         |      |              |               |
| M2  | 16mm    | 1    | AN-4-M       | ★E646462-S    |
| M3.5                                      | 14mm    | 1    | AN-4-MA      | ★E646511-S71M |
| M4  | 20mm    | 1    | AN-5-E       | ★E646569-S71  |
| M5  | 10mm    | 1    | AN-7         | ★E840110-S    |
| M8  | 24mm    | 1    | AN-8         | ★71919-GS     |
| M16                                       | 10mm    | 1    | AN-10        | ★E944100-S    |
| M4  | 1.0mm   | 2    | AN-5-G       | ★N646319-S    |
| M4  | 25mm    | 2    | AN-7-F       | ★N646579-S    |
| M4  | 40mm    | 2    | AN-7-FK      | ★N646325-S    |
| M4.3                                      | 22.50mm | 2    | AN-7-FA      | ★N804184-S2   |
| M4.5                                      | 18mm    | 2    | AN-12-E      | ★E646568-S    |
| M5  | 25mm    | 2    | AN-7-G       | ★N646635-S    |
| M3  | 12mm    | 3    | AN-5-AA      | ★E646510-S71  |
| M4  | 14mm    | 3    | AN-5-F       | ★N646314-S2   |
| M5  | 19mm    | 3    | AN-30-E      | ★E800198-S2   |
| M7.62                                     | 50mm    | 3    | AN-8-E       | ★E840206-S100 |
| M3  | 16mm    | 5    | AN-9-B       | ★N646512-S    |
| M3  | 18mm    | 5    | AN-9-BA      | ★N646513-S2   |
| M5  | 20mm    | 5    | AN-9-A       | N646624-S     |
| M5  | 20mm    | 5    | AN-9-E       | ★N646624-S2   |
| M5  | 22mm    | 5    | AN-9-C       | ★E646625-S    |
| M5  | 30mm    | 5    | AN-9         | ★N646629-S    |
| M5  | 40mm    | 5    | AN-9-D       | ★E646632-S    |

**PH-141**
**PIN — SELF LOCKING**


TYPE 1



TYPE 2



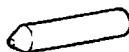
TYPE 3

**PH141**

| PIN DIAMETER | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|---------|------|--------------|---------------|
| 1/32"        | 7/16"   | 1    | NN-126       | ★353610-S8    |
| 1/16"        | 3/8"    | 1    | NN-127-C     | ★379430-S43MB |
| 1/16"        | 3/8"    | 1    | NN-127-D     | ★379430-S36M  |
| 1/16"        | 61/64"  | 1    | NN-127-B     | 352358-S100   |
| 5/64"        | 31/32"  | 1    | NN-128-B     | ★353467-S2    |
| 5/64"        | 1-3/16" | 1    | NN-128-AC    | 374845-S7     |
| 3/32"        | 1-5/64" | 1    | NN-128-A     | ★379897-S2    |
| 1/8"         | 49/64"  | 1    | NN-128       | ★358883-S7-8  |
| 1/16"        | 15/16"  | 2    | NN-128-FH    | ★385805-S2    |
| 3/32"        | 1-9/32" | 2    | NN-128-F     | ★380699-S2    |
| 3/32"        | 1-9/32" | 2    | NN-128-FF    | 380699-S100   |
| 3/64"        | 1-1/8"  | 3    | NN-128-J     | ★381619-S2    |

**Metric**

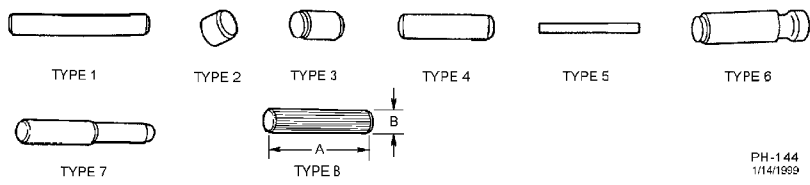
|       |        |   |         |              |
|-------|--------|---|---------|--------------|
| No. 8 | 19.5mm | 1 | AG-33-E | ★E840007-S71 |
| M1.5  | 19mm   | 1 | AG-33   | ★E840074-S71 |
| M2    | 22.5mm | 1 | AG-33-L | ★E840019-S76 |
| M3    | 13mm   | 1 | AG-32   | ★E864109-S   |
| M8    | 19.5mm | 1 | AG-33-A | ★E840007-S   |

**PH-142**
**PIN — SPECIAL**

**PH142**

| DIAMETER | LENGTH  | LOCATOR CODE | PART NUMBER |
|----------|---------|--------------|-------------|
| 1/8"     | 31/32"  | NN-130-F     | ★388145-S8  |
| 15/64"   | 1-7/16" | NN-130       | ★357228-S   |

# Standard and Utility Parts Catalog

## PH-144      PIN — STRAIGHT — CHAMFERED END

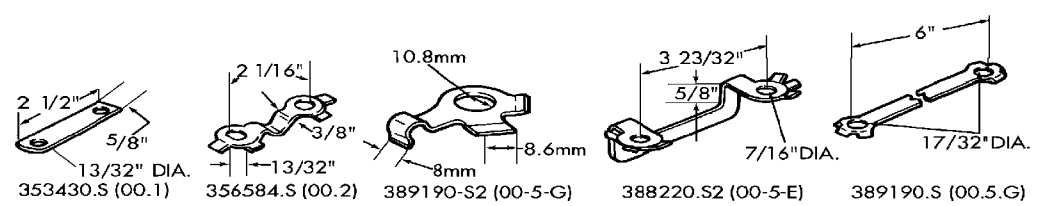


| DIAMETER | LENGTH   | TYPE | LOCATOR CODE | PART NUMBER |
|----------|----------|------|--------------|-------------|
| 3/32"    | 7/16"    | 1    | NN-132       | ★ 371800-S  |
| 3/16"    | 3/8"     | 1    | NN-140-B     | ★ 373931-S  |
| 3/16"    | 3/4"     | 1    | NN-143       | ★ 354347-S2 |
| 3/16"    | 1-1/4"   | 1    | NN-143-E     | ★ 382715-S  |
| 3/16"    | 1-27/32" | 1    | NN-143-F     | ★ 387297-S  |
| 3/16"    | 2-1/4"   | 1    | NN-143-L     | 387579-S    |
| 5/16"    | 3/4"     | 2    | NN-55        | ★ 357648-S8 |
| 1/8"     | 1-5/8"   | 3    | NN-138-D     | ★ 374736-S  |
| 5/32"    | 1-1/16"  | 3    | NN-141       | ★ 370583-S  |
| 1/8"     | 1"       | 4    | NN-102       | ★ 370235-S  |
| 3/16"    | 7/16"    | 4    | NN-102-E     | ★ 385419-S  |
| 5/16"    | 1"       | 4    | NN-102-A     | 389543-S    |
| 1/4"     | 2-9/16"  | 5    | NN-145       | ★ 351814-S8 |
| 1/4"     | 15/16"   | 6    | NN-145-G     | ★ 383359-S  |
| 5/16"    | 1-3/16"  | 6    | NN-145-K     | ★ 389951-S2 |
| 23/64"   | 1-23/32" | 6    | NN-145-J     | ★ 389950-S2 |

| Metric      |         |   |          |               |
|-------------|---------|---|----------|---------------|
| M3          | 19.25mm | 1 | AN-15-BC | N805335-S     |
| M3.18       | 29.65mm | 1 | AN-15-BB | ★ N801105-S   |
| M5          | 29mm    | 1 | AN-15-C  | ★ N802361-S2# |
| M8          | 74mm    | 1 | AN-15-A  | N802429-S100  |
| M3.96       | 23mm    | 4 | AN-15-F  | ★ N801012-S   |
| M4          | 15.75mm | 4 | AN-15-E  | ★ N800329-S   |
| M5          | 14mm    | 4 | AN-17-A  | N807738-S     |
| M6          | 20mm    | 4 | AN-17-B  | N807739-S     |
| M3.7 X M3.9 | 26.5mm  | 7 | AN-16-E  | N805857-S     |
| M4.55       | 15.75mm | 8 | 550-070  | N807739-S     |

# Knurled

## PH-132      PLATE — LOCKING



PH-146

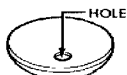
PLUG — CUP or EXPANSION



TYPE 1



TYPE 2



TYPE 3


TYPE 4  
PH-146

| DIAMETER | TYPE | LOCATOR CODE | PART NUMBER |
|----------|------|--------------|-------------|
| 7/32"    | 1    | PP-58-B      | 378261-S    |
| 3/8"     | 1    | PP-60        | 352532-S2   |
| 1/2"     | 1    | PP-67-A      | 376301-S    |
| 2-1/16"  | 1    | PP-84-D      | 376047-S102 |
| .090     | 1    | AP-85-AA     | 378259-S    |

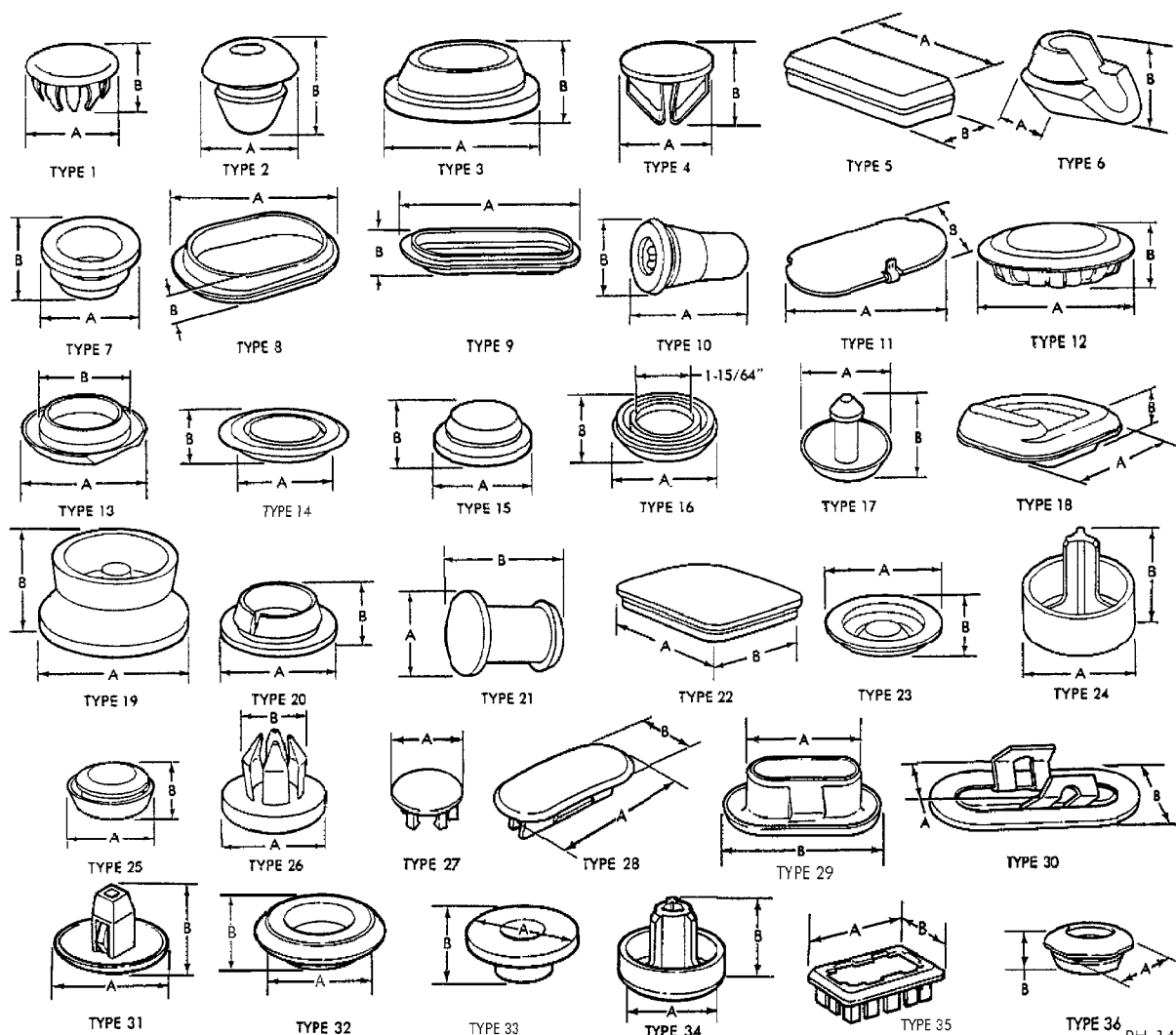
## Metric

|          |   |          |              |
|----------|---|----------|--------------|
| M25      | 1 | AP-9-Z   | N808576-S    |
| M36.5    | 2 | AP-9-A   | ★N804432-S   |
| 56mm     | 2 | AP-9-AA  | W708070-S300 |
| 6.60mm   | 4 | AP-25    | 379127-S900  |
| 34.374mm | 4 | AP-25-C  | W709901-S300 |
| 35.34mm  | 4 | AP-25-A  | W700029-S300 |
| 43.69mm  | 4 | AP-25-AA | W706302-S300 |

\* Grade Level

## PH-145

## PLUG — BUTTON

PH-145  
11/17/2004

| A       | B      | TYPE | MATERIAL     | LOCATOR CODE | PART NUMBER |
|---------|--------|------|--------------|--------------|-------------|
| 17/64"  | 1/4"   | 1    | Steel        | PP-1-A       | ★377346-S6  |
| 1/4"    | 3/8"   | 2    | Rubber       | PP-2-B       | 377934-S    |
| 1/4"    | 1/2"   | 2    | Rubber       | PP-2-A       | ★380864-S   |
| 3/8"    | 11/32" | 2    | Rubber       | PP-2-C       | 379286-S    |
| 1/2"    | 1/2"   | 2    | Rubber       | PP-2-D       | 377935-S    |
| 1/2"    | 1/2"   | 2    | Rubber       | PP-2-D       | 377935-S300 |
| 17/32"  | 1/2"   | 2    | Rubber       | PP-2-E       | ★356816-S   |
| 9/16"   | 1/2"   | 2    | Rubber       | PP-2-DD      | ★357191-S   |
| 5/8"    | 31/64" | 2    | Rubber       | PP-2-CC      | ★386897-S   |
| 5/8"    | 11/16" | 2    | Rubber       | PP-94        | ★386383-S   |
| 3/4"    | 17/32" | 2    | Polyethylene | PP-93-E      | ★386541-S   |
| 25/32"  | 7/16"  | 2    | Rubber       | PP-2         | ★357042-S   |
| 5/8"    | 1/4"   | 3    | Rubber       | PP-3-D       | 376966-S    |
| 47/64"  | 9/32"  | 3    | Rubber       | PP-1-F       | ★115311-ES  |
| 3/4"    | 19/32" | 3    | Rubber       | PP-3-DE      | ★385294-S   |
| 7/8"    | 23/64" | 3    | Rubber       | PP-3-F       | 377949-S    |
| 1"      | 13/32" | 3    | Rubber       | PP-3-FB      | 386868-S    |
| 1-1/8"  | 23/64" | 3    | Rubber       | PP-3-E       | 377678-S    |
| 1-1/8"  | 23/64" | 3    | Rubber       | PP-3-H       | 378444-S    |
| 1-1/4"  | 7/16"  | 3    | Rubber       | PP-4         | ★352284-S   |
| 1-5/16" | 7/16"  | 3    | Rubber       | PP-4-AB      | 377856-S    |

# Standard and Utility Parts Catalog

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PH-145

PLUG — BUTTON (Cont'd)

| A        | B       | TYPE | MATERIAL     | LOCATOR CODE | PART NUMBER  |
|----------|---------|------|--------------|--------------|--------------|
| 1-3/8"   | 23/64"  | 3    | Rubber       | PP-4-AA      | 378377-S     |
| 1-3/8"   | 23/64"  | 3    | Rubber       | PP-4-AD      | 378377-S100  |
| 1-3/8"   | 3/8"    | 3    | Rubber       | PP-3-FG      | ★385298-S    |
| 1-5/6"   | 23/64"  | 3    | Rubber       | PP-4-A       | ★377679-S    |
| 1-13/16" | 7/16"   | 3    | Rubber       | PP-5         | ★352285-S    |
| 1-7/8"   | 23/64"  | 3    | Rubber       | PP-6         | ★379534-S    |
| 2-1/4"   | 3/8"    | 3    | Rubber       | PP-3-FA      | ★383796-S    |
| 2-1/4"   | 3/8"    | 3    | Rubber       | PP-3-FC      | ★377356-S    |
| 2-1/4"   | 3/8"    | 3    | Rubber       | PP-3-FD      | 391538-S     |
| 17/32"   | 5/16"   | 4    | Steel        | PP-8-E       | ★380907-S13  |
| 5/8"     | 5/8"    | 4    | Steel        | PP-8-H       | ★385361-S100 |
| 3/4"     | 1-1/4"  | 4    | Rubber       | PP-8-HC      | 388588-S     |
|          |         | 4    | Steel        | PP-8-L       | ★374052-S13  |
| 1-25/32" | 21/32"  | 5    | Rubber       | PP-10        | ★352488-S    |
| 15/16"   | 49/64"  | 6    | Rubber       | PP-11        | ★358599-S    |
| 27/32"   | 41/64"  | 7    | Rubber       | PP-95        | ★386384-S    |
| 1-1/4"   | 1/4"    | 8    | Rubber       | PP-13-A      | ★388454-S    |
| 1-7/16"  | 3/8"    | 8    | Rubber       | PP-13-B      | 378770-S     |
| 1-5/8"   | 1-1/8"  | 8    | Rubber       | PP-14-VB     | 383181-S     |
| 2"       | 7/16"   | 8    | Rubber       | PP-13-CF     | ★385293-S    |
| 2-1/2"   | 1"      | 8    | Rubber       | PP-13-D      | ★379305-S    |
| 3-3/32"  | 39/64"  | 8    | Rubber       | PP-96        | ★385523-S    |
| 3-1/2"   | 23/64"  | 8    | Rubber       | PP-14-V      | ★380878-S    |
| 3-1/2"   | 3/8"    | 8    | Plastic      | PP-13-E      | ★390581-S    |
| 1-1/2"   | 3/8"    | 9    | Rubber       | PP-14-BJ     | ★388016-S    |
| 1-1/2"   | 3/8"    | 9    | Rubber       | PP-14-BK     | 377994-S     |
| 1-49/64" | 13/32"  | 9    | Rubber       | PP-14-BN     | 377936-S     |
| 2-1/2"   | 3/8"    | 9    | Rubber       | PP-14-BM     | 385622-S     |
| 2-15/16" | 21/64"  | 9    | Rubber       | PP-14-F      | ★379752-S    |
| 3-1/2"   | 23/64"  | 9    | Rubber       | PP-14-H      | ★388963-S    |
| 3-29/32" | 23/64"  | 9    | Rubber       | PP-13-N      | ★378923-S    |
| 3-29/32" | 2-1/4"  | 9    | Rubber       | PP-13-NA     | N804947-S    |
| 4-1/2"   | 2-3/4"  | 9    | Rubber       | PP-14-VC     | ★385647-S    |
| 3-5/16"  | 23/32"  | 12   | Steel        | PP-14-K      | ★352114-S7   |
| 1-5/32"  | 51/64"  | 13   | Polyethylene | PP-14-MA     | ★386542-S    |
| 1-5/16"  | 1"      | 13   | Polyethylene | PP-14-M      | ★375720-S    |
| 3/4"     | 1-1/4"  | 14   | Rubber       | PP-14-ML     | 377977-S     |
| 27/32"   | 7/16"   | 14   | Rubber       | PP-14-J      | ★389641-S101 |
| 1-1/2"   | 23/64"  | 14   | Rubber       | PP-14-N      | 377901-S     |
| 1-3/4"   | 3/8"    | 14   | Rubber       | PP-14-NA     | 389114-S     |
| 2"       | 2-3/8"  | 14   | Rubber       | PP-14-P      | ★387433-S    |
| 2-1/2"   | 1/4"    | 14   | Rubber       | PP-14-R      | 385138-S     |
| 2-3/4"   | 2-1/4"  | 14   | Rubber       | PP-14-S      | ★378133-S    |
| 2-3/8"   | 23/64"  | 16   | Rubber       | PP-14-AF     | ★381980-S    |
| 7/16"    | 1-1/8"  | 17   | Plastic      | PP-14-AJ     | ★386540-S    |
| 1"       | 1-7/16" | 17   | Plastic      | PP-14-AH     | 388523-S     |
| 1-1/4"   | 13/16"  | 17   | Rubber       | PP-14-AG     | ★381957-S    |
| 1-11/16" | 1/2"    | 18   | Rubber       | PP-15-G      | ★385297-S    |
| 1-3/4"   | 3/4"    | 19   | Rubber       | PP-99-H      | ★387058-S    |
| 1-25/32" | 2"      | 21   | Plastic      | PP-100-E     | ★387344-S    |
| 3-1/8"   | 2-5/8"  | 22   | Rubber       | PP-14-AA     | ★381767-S    |
| 1-11/64" | 15/64"  | 23   | Plastic      | PP-96-C      | W703301-S300 |
| 1-5/16"  | 5/8"    | 23   | Rubber       | PP-4-AC      | ★389515-S    |
| 13/16"   | 15/16"  | 24   | Polyethylene | PP-15-L      | 387929-S     |
| 13/16"   | 7/8"    | 24   | Polyethylene | PP-15-LA     | 390857-S     |
| 11/16"   | 3/8"    | 25   | Rubber       | PP-101       | ★389418-S    |
| 1-1/4"   | 13/32"  | 25   | Rubber       | PP-101-A     | 383689-S     |
| 11/32"   | 13/64"  | 26   | Nylon        | PP-98        | ★388237-S    |
| 11/16"   | 7/8"    | 34   | Plastic      | PP-102       | ★390312-S    |

(continued)

# Standard and Utility Parts Catalog

**PH-145      PLUG — BUTTON (Cont'd)**

| Metric  |         |    |                            |          |               |
|---------|---------|----|----------------------------|----------|---------------|
| 16.9mm  | 7.3mm   | 1  | Plastic<br>Charcoal Black  | AP-1-E   | W703751-SSF   |
| 16.9mm  | 7.3mm   | 1  | Plastic<br>Med Parchment   | AP-1-F   | W703751-SSA   |
| 16.9mm  | 7.3mm   | 1  | Plastic<br>Med Dk Graphite | AP-1-G   | W703751-SSB   |
| 16.9mm  | 7.3mm   | 1  | Plastic<br>Midnight Black  | AP-1-H   | W703751-SSC   |
| 16.9mm  | 7.3mm   | 1  | Plastic<br>Med Dk Flint    | AP-1-J   | W703751-SSD   |
| 16.9mm  | 7.3mm   | 1  | Plastic<br>Med Dk Pebble   | AP-1-K   | W703751-SSE   |
| M20     | 14mm    | 1  | Plastic                    | AP-1-B   | N806458-S     |
| M29-20  | 7.30mm  | 1  | Plastic                    | AP-1-C   | W700815-S300  |
| M28-50  | 10.50mm | 1  | Nylon                      | AP-1-A   | ★N804263-S    |
| M53     | 13mm    | 1  | Plastic                    | AP-1     | ★E852136-S    |
| M7      | 8.5mm   | 2  | Rubber                     | AP-2-F   | ★E852009-S    |
| M19     | 20.0mm  | 2  | Rubber                     | AP-2-G   | ★W702176-S300 |
| M25     | 29.5mm  | 2  | Rubber                     | AP-2-H   | 391742-S      |
| M26     | 9.2mm   | 3  | Rubber                     | 590-050  | W702843-S300  |
| M45     | 14.5mm  | 3  | Rubber                     | 590-050  | N806557-S     |
| M48     | 11mm    | 3  | Rubber                     | AP-3     | E852126-S     |
| M7.6    | 8.2mm   | 4  | Rubber                     | AP-58-A  | N808654-S     |
| 11mm    | —       | 4  | Plastic                    | AP-58-AB | ★W702599-S    |
| M16     | 6.2mm   | 4  |                            | AP-58-X  | W702357-S300  |
| M19.6   | 7.4mm   | 4  | Steel                      | AP-58    | N808070-S     |
| M25.0   | 31.0mm  | 4  | Rubber                     | AP-60    | N806739-S     |
| M12     | 12mm    | 7  |                            | AP-60-ZZ | W704716-S300  |
| 24.70mm | 7.27mm  | 8  | Rubber                     | AP-55-B  | W709408-S300  |
| M34.4   | 9mm     | 8  | Rubber                     | AP-45-FD | N806741-S     |
| M38.0   | 11.0mm  | 8  | Plastic                    | AP-45-FJ | N804981-S     |
| M63.4   | M11     | 8  | Rubber                     | AP-55-BB | N806651-S     |
| M32.6   | 9mm     | 9  | Rubber                     | AP-45-F  | ★N800554-S    |
| M39.0   | 11mm    | 9  | Rubber                     | AP-45-L  | N803495-S     |
| M48     | 31mm    | 9  | Plastic                    | AP-45-J  | ★E852110-S    |
| 60mm    | 40mm    | 9  | —                          | AP-45-KA | W708107-S300  |
| M64     | 12mm    | 9  | Plastic                    | AP-45-K  | N807093-S     |
| M72.6   | 38.6mm  | 9  | Rubber                     | 590-050  | W705074-S300  |
| M89     | 9mm     | 9  | Nylon                      | AP-45-E  | ★E850102-S    |
| M96     | 83mm    | 9  | Rubber                     | AP-45-G  | N800857-S     |
| M110    | 43mm    | 9  | Plastic                    | AP-45-H  | ★N852121-S    |
| M9.5    | 7.5mm   | 10 | Nylon                      | AP-13-B  | N811169-S     |
| M57.5   | 19mm    | 11 | Plastic                    | AP-14-H  | ★N801292-S    |
| M15.5   | 40mm    | 12 | Plastic                    | AP-19-F  | ★N807186-S    |
| M22     | 7.6mm   | 12 | Plastic                    | AP-14-J  | W700407-S300  |
| M24.1   | 7.9mm   | 12 | Plastic                    | AP-14-K  | W701821-S309  |
| M34.5   | 25.4mm  | 12 | Plastic                    | AP-19-E  | ★N804119-S    |
| M41.1   | 32.77mm | 13 | Polyethylene               | AP-17    | ★N804282-S    |
| M21     | 9mm     | 14 | Plastic                    | AP-41-H  | W651013-S     |
| M27.5   | 12.5mm  | 14 | Plastic                    | AP-41-L  | ★N807313-S    |
| M35     | 11mm    | 14 | Rubber                     | AP-41-M  | W701005-S300  |
| M41     | 10mm    | 14 | Rubber                     | AP-41-G  | N802981-S     |
| M56     | 11mm    | 14 | Rubber                     | AP-41-F  | ★N802175-S    |
| M12     | 4.5mm   | 15 | Rubber                     | AP-54    | ★E852000-S    |
| M35     | 9.2mm   | 15 | Rubber                     | AP-54-A  | ★111732-ES    |
| M25     | 22mm    | 17 | Ethylene/Prop              | AP-46-C  | N803867-S     |
| M38     | 36mm    | 17 | Plastic                    | AP-46    | N801951-S     |
| M8.2    | 13.5mm  | 20 | Steel                      | AP-41-B  | ★N800362-S    |
| M29.5   | 16.5mm  | 20 | Plastic                    | AP-41-J  | ★E852063-SPC  |
| M29.7   | 6.5mm   | 20 | Plastic                    | AP-41-C  | ★N800790-S100 |

PH-145

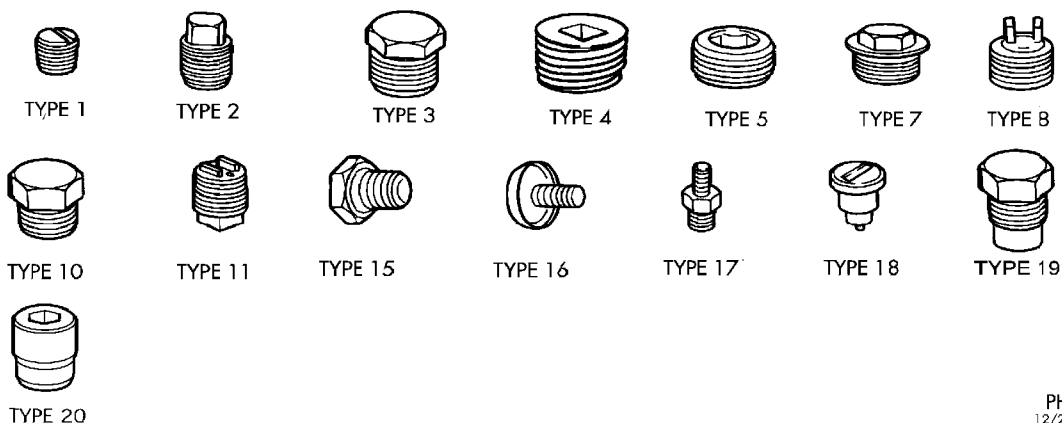
PLUG — BUTTON (Cont'd)

| Metric (Cont'd) |          |      |               |              |               |
|-----------------|----------|------|---------------|--------------|---------------|
| A               | B        | TYPE | MATERIAL      | LOCATOR CODE | PART NUMBER   |
| 31.7mm          | 6.3mm    | 20   | Plastic       | AP-41-C      | W707990-S300  |
| M32             | 11.7mm   | 20   | Plastic       | AP-41-K      | ★ E852118-S   |
| M37             | 9.5mm    | 20   | Plastic       | AP-41-E      | ★ E852103-S   |
| M55             | 38mm     | 22   | Plastic       | AP-42-E      | ★ E852015-SFA |
| M31.8           | 9.4mm    | 23   | Rubber        | AP-47-E      | ★ N801687-S   |
| M48             | 36mm     | 23   | Steel         | AP-43-E      | ★ E857118-S71 |
| M19.4           | 12mm     | 25   | Steel         | AP-101-B     | W709457-S430  |
| M25             | 4.25mm   | 25   | Rubber        | AP-101-A     | 86906-0B700   |
| 34.8mm          | —        | 25   | Rubber        | AP-101       | W709073-S300  |
| M12             | 15mm     | 27   | Plastic       | AP-41-A      | ★ E852086-S2P |
| M23             | 16.5mm   | 27   | Plastic       | AP-41-BM     | ★ N802655-S   |
| M21             | 30mm     | 28   |               | AP-49-AA     | W707236-S300  |
| M36.5           | 55mm     | 28   | Plastic       | AP-62        | ★ N806935-S   |
| M43             | 10mm     | 28   | Plastic       | AP-48        | ★ N802557-S   |
| M12.7           | 7.92mm   | 29   | Plastic       | AP-49        | ★ 111706-ES   |
| M80             | 100mm    | 29   |               | AP-49-A      | W706088-S300  |
| M19             | 50mm     | 30   | Steel         | AP-59        | N808071-S     |
| M53             | 36mm     | 30   | Steel         | AP-50        | ★ E857122-S71 |
| 13.0mm          | 17.0mm   | 31   | Steel         | AP-51-B      | W709438-S900  |
| M22             | 11.9mm   | 31   | Plastic       | AP-51-A      | ★ E852048-S   |
| M25             | 16mm     | 31   | Plastic       | AP-51        | E852042-S     |
| M36.6           | 27.2mm   | 32   | Plastic       | AP-52        | ★ W651014-S   |
| M39.6           | 30.2mm   | 32   | Plastic       | AP-52-B      | W651015-S     |
| M44.5           | 32mm     | 32   | Rubber        | AP-52-A      | N803455-S     |
| M53.5           | 47.5mm   | 32   | Rubber        | AP-52-C      | ★ U800854-S   |
| M15.5           | 6mm      | 33   | Polyethylene  | AP-53        | ★ N803546-S   |
| 16.0mm          | \$8.96mm | 33   | Titanium      | AP-53-A      | W709966-S309  |
| 25mm            | 13.0mm   | 33   | Polypropylene | AP-53        | N808574-S     |
| 30mm            | 19.5mm   | 34   | —             | AP-61-A      | W708143-S300  |
| M31             | 12mm     | 34   | Plastic       | AP-61        | N806457-S     |
| 30.6mm          | 13.0mm   | 36   | Plastic       | AP-53-A      | N801086-S     |
| M33             | 8.6mm    | 36   | Rubber        | AP-53-C      | W702270-S300  |

\$ Adhesive



## PH-147 PLUG — THREADED

PH147  
12/22/2000

| PIPE SIZE | THREAD | THREAD LENGTH | HEAD                         | TYPE | LOCATOR CODE | PART NUMBER   |
|-----------|--------|---------------|------------------------------|------|--------------|---------------|
| 3/4"      | 16     | 3/4"          | Slotted                      | 1    | PP-27        | ★375602-S7-8  |
| 1/8"      | 27     | 5/32"         | Square                       | 2    | PP-28        | ★353054-SΔ    |
| 1/4"      | 18     | 1/2"          | Square                       | 2    | PP-29        | ★353055-S7Δ   |
| 1/2"      | 14     | 5/8"          | Square                       | 2    | PP-31        | ★358035-SΔ    |
| 3/4"      | 14     | 5/8"          | Square                       | 2    | PP-32        | ★353051-SΔ    |
| 1/16"     | 27     | 5/16"         | Hexagon                      | 3    | PP-35-B      | ★388728-S     |
| 1/8"      | 27     | 3/8"          | Hexagon                      | 3    | PP-35        | ★357916-SΔ    |
| 1/4"      | 28     | 7/64"         | Hexagon                      | 3    | PP-35-A      | ★374714-S7-8  |
| 3/8"      | 24     | 5/16"         | Hexagon                      | 3    | PP-35-HK     | ★386014-S     |
| 3/8"      | 24     | 15/64"        | Hexagon                      | 3    | PP-35-G      | 389976-S100   |
| 7/16"     | 24     | 15/64"        | Hexagon                      | 3    | PP-38        | ★353808-S8    |
| 9/16"     | 18     | 27/64"        | Hexagon                      | 3    | PP-41-Y      | 391525-S      |
| 5/8"      | 18     | 7/16"         | Hexagon                      | 3    | PP-41        | ★359071-S     |
| 3/4"      | 16     | 5/16"         | Hexagon                      | 3    | PP-41-E      | ★388873-S100  |
| 3/4"      | 18     | 5/16"         | Hexagon                      | 3    | PP-41-F      | ★389800-S     |
| 1/8"      | 27     | 5/16"         | Square<br>C'Sunk             | 4    | PP-41-X      | ★382004-SΔ    |
| 1/2"      | 14     | 7/16"         | Square<br>C'Sunk             | 4    | PP-42-B      | ★373098-S100Δ |
| 1/2"      | 14     | 9/16"         | Square<br>C'Sunk             | 4    | PP-42        | ★358059-SΔ    |
| 1/2"      | 14     | 5/8"          | Square<br>C'Sunk             | 4    | PP-42-D      | 390943-S100Δ  |
| 3/4"      | 14     | 5/8"          | Square<br>C'Sunk             | 4    | PP-43        | 358048-SΔ     |
| 1"        | 11-1/2 | 9/16"         | Square<br>C'Sunk             | 4    | PP-46        | ★353069-SΔ    |
| 1/2"      | 14     | —             | Square                       | 4    | PP-47-A      | 390943-S304   |
| 3/8"      | 18     | 10.8mm        | Hex C'Sunk                   | 5    | PP-48-B      | E650413-S72   |
| 1/2"      | 14     | 6.4mm         | Hex C'Sunk                   | 5    | PP-48-E      | W701517-S309  |
| 3/4"      | 14     | 17/32"        | Hex. C'Sunk                  | 5    | PP-48-A      | ★371485-S     |
| 1-1/2"    | 11-1/2 | 13/16"        | Hex. C'Sunk                  | 5    | PP-48-D      | ★385660-S     |
| 1-1/16"   | 16     | 5/16"         | Hex.<br>Washer               | 7    | PP-50        | ★353830-S     |
| 3/4"      | 14     | 1/4"          | Square<br>C'Sunk             | 8    | PP-51-A      | ★374224-S☆    |
| 3/4"      | 14     | 1/4"          | Square<br>C'Sunk             | 8    | PP-51        | 374506-SΔ☆    |
| 3/4"      | 14     | 3/4"          | Square<br>C'Sunk             | 8    | PP-52        | ★353240-SA☆   |
| 1-1/4"    | 11-1/2 | 5/16"         | Square<br>C'Sunk<br>Magnetic | 8    | PP-52-F      | ★374501-SΔ☆   |

## PH-147 PLUG — THREADED (Cont'd)

| PIPE SIZE | THREAD | THREAD LENGTH | HEAD    | TYPE | LOCATOR CODE | PART NUMBER  |
|-----------|--------|---------------|---------|------|--------------|--------------|
| 1/8"      | —      | 4.2           | Round   | 8    | PP-98-A      | W707919-S309 |
| 1/8"      | 27     | 19/64"        | Hexagon | 10   | PP-55        | ★354947-S    |
| 1/8"      | 27     | —             | Hexagon | 10   | PP-55-A      | 391346-S101  |
| 1/2"      | 14     | 5/8"          | Square  | 11   | PP-54-D      | ★373719-SΔ☆  |
| 7/8"      | 18     | 13/32"        | Hexagon | 15   | PP-54-N      | ★379166-S    |
| 1/4"      | 18     | 1/2"          | Hexagon | 17   | PP-97        | ★386766-S2†  |
| 15/32"    | 32     | 31/32"        | Round   | 18   | PP-97-E      | ★387829-S8   |

### Metric

|       |    |         |                  |    |          |              |
|-------|----|---------|------------------|----|----------|--------------|
| 1/8"  | 27 | 8mm     | Hexagon          | 3  | AP-10-G  | E450102-SVMR |
| 1/8"  | 27 | 8mm     | Hexagon          | 3  | AP-10-G  | E450102-S80  |
| 1/2"  | 14 | 13mm    | Square<br>C'Sunk | 4  | AP-15    | ★E450100-S76 |
| 3/8"  | 18 | 10.41mm | Hexagon          | 5  | AP-16    | ★391537-S101 |
| 1/8"  | 27 | 7.1mm   | Hexagon          | 7  | PP-50-A  | W528110-S304 |
| 7/16" | 20 | 127mm   | Slotted          | 16 | AP-31    | ★115474-ES   |
| 1/8"  | 27 | 19/64"  | Hexagon          | 19 | 090-010  | 390685-S     |
| 7/8"  | 27 | 19/64"  | Hexagon          | 19 | 090-010  | 390685-S100  |
| 1/8"  | 27 | 4.8mm   | Hex C'Sunk       | 20 | AP-16-AE | W706310-S304 |

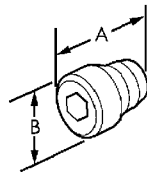
### Metric Coarse Thread

| NOMINAL SIZE | THREAD LENGTH | HEAD    | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|---------------|---------|------|--------------|--------------|
| 6.477        | 1/4 X 18      | Hexagon | 2    | AP-12-E      | W707044-S304 |
| M12          | 1.5 X 10mm    | Hexagon | 3    | AP-12-HA     | W707086-S309 |

| NOMINAL SIZE | A      | B       | HEAD    | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|--------|---------|---------|------|--------------|--------------|
| M18          | 18.0mm | 25.25mm | Hexagon | 1    | WW-010-B     | N804153-S301 |

☆ Magnetic Plug † 1/4"-20 x 9/16" Stud

## PH-148 PLUG — SOCKET

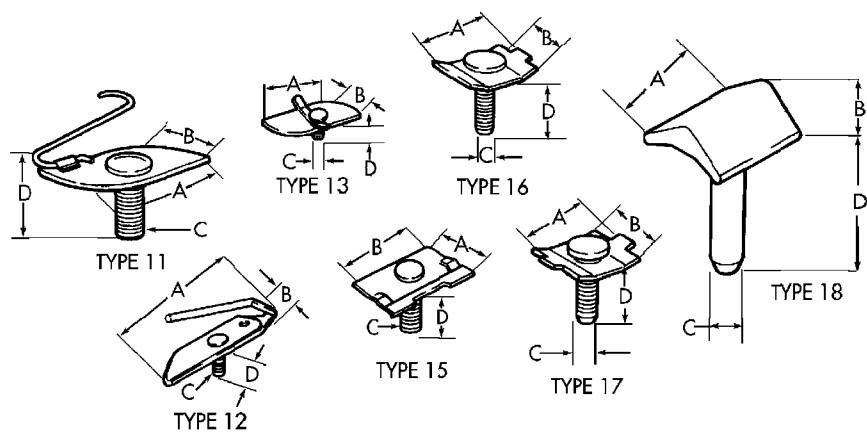


TYPE 1

PH-148  
01/11/2002

| A         | B   | HEAD | TYPE | LOCATOR CODE | PART NUMBER  |
|-----------|-----|------|------|--------------|--------------|
| 18        | 3/8 | Hex  | 1    | WM-010-A     | 391186-S101  |
| 18 x 10.8 | 1/4 | Hex  | 1    | WM-010-B     | W701515-S439 |
| 27        | 1/8 | Hex  | 1    | WM-020-A     | W704999-S439 |

**PH-149      RETAINER — MOULDING ASSY.**

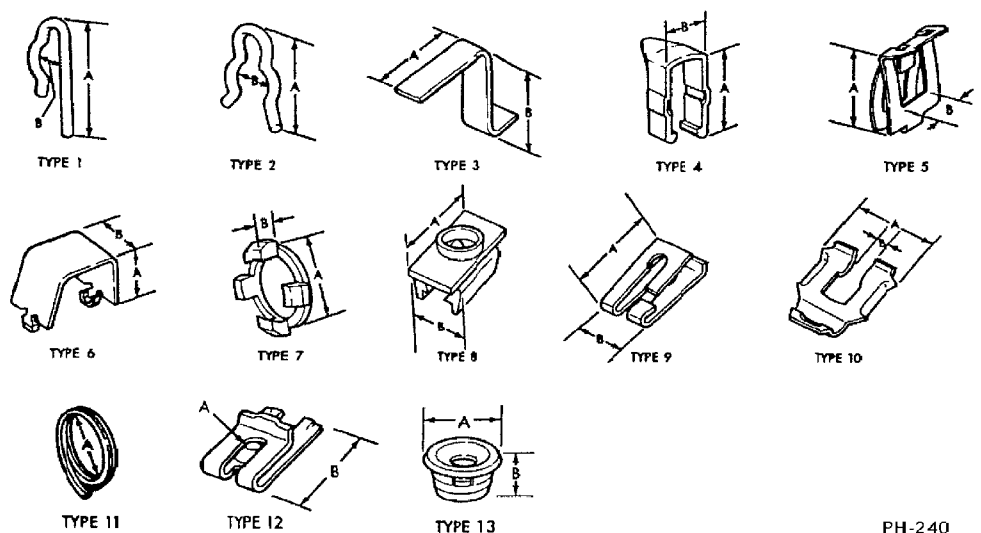


PH149

| A        | B      | C         | D      | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|-----------|--------|------|--------------|--------------|
| 29/32"   | 29/64" | No. 10-24 | 3/4"   | 11   | RR-44        | ★358566-S100 |
| 29/32"   | 1/2"   | No. 10-24 | 1"     | 11   | RR-44-A      | ★354842-S100 |
| 1-13/16" | 9/16"  | No. 10-24 | 17/32" | 12   | RR-32        | ★357118-S8   |
| 1-3/4"   | 3/4"   | No. 10-24 | 5/8"   | 13   | RR-44-B      | ★359319-S100 |
| 25/32"   | 1/2"   | No. 8-32  | 1/2"   | 16   | RR-40        | ★357849-S100 |
| 25/32"   | 1/2"   | No. 8-32  | 5/8"   | 16   | RR-40-A      | ★380663-S2   |
| 1-1/4"   | 15/16" | No. 8-32  | 1"     | 16   | RR-40-C      | ★386786-S2   |
| 1-3/4"   | 7/8"   | 3/8"-16   | 1"     | 16   | RR-40-B      | ★385097-S36  |
| 1"       | 5/8"   | 1/4"-20   | 1"     | 17   | RR-46-E      | ★384987-S36  |
| 25/32"   | 1/2"   | No. 8-32  | 3/4"   | 17   | RR-46-G      | ★376589-S2   |

| Metric |        |       |      |    |       |              |
|--------|--------|-------|------|----|-------|--------------|
| M21    | 12.7mm | M4    | 27mm | 15 | AR-10 | N800463-S100 |
| M8     | 9.4mm  | 3.2mm | 11mm | 18 | AR-15 | ★E866051-S   |

**PH-240      RETAINER — SPRING**



PH-240

## PH-240 RETAINER — SPRING (Cont'd)

| A       | B      | TYPE | LOCATOR CODE | PART NUMBER  |
|---------|--------|------|--------------|--------------|
| 2-5/32" | 13/16" | 1    | RR-1-E       | ★388276-S7   |
| 1/8"    | 3/64"  | 2    | RR-2         | ★359734-S    |
| 1-5/64" | 13/32" | 2    | RR-4-A       | ★383475-S100 |
| 11/32"  | 5/32"  | 3    | RR-4-F       | ★376944-S    |
| 1/2"    | 1/2"   | 6    | RR-10-E      | ★388684-S2   |

### Metric

| A     | B       | TYPE | LOCATOR CODE | PART NUMBER   |
|-------|---------|------|--------------|---------------|
| M20   | 63mm    | 1    | AR-52        | N806493-S426  |
| M20   | 6.5mm   | 2    | AR-52-AA     | W706800-S303  |
| M20   | 11.8mm  | 2    | AR-52-E      | W703355-S303  |
| M21.5 | 10.5mm  | 4    | AR-51-A      | ★N802239-S    |
| M21.5 | 12.5mm  | 4    | AR-51        | ★N802241-S    |
| M22.4 | 13.6mm  | 4    | AR-51-M      | N806190-S190  |
| M22.7 | 11.2mm  | 4    | AR-51-N      | N806191-S190  |
| M13   | 6mm     | 7    | AR-51-J      | ★E890443-S    |
| M16.2 | 9.5mm   | 7    | AR-51-C      | N802710-S190  |
| M22.1 | 9.5mm   | 7    | AR-51-B      | N802441-S     |
| M22   | 12.4mm  | 8    | AR-51-D      | ★E866092-S    |
| M18   | 14mm    | 9    | AR-51-H      | E860229-S76   |
| M18   | 14mm    | 9    | AR-51-HA     | ★E860349-S76  |
| M23.8 | 14mm    | 9    | AR-51-E      | ★E860200-S76  |
| M20.8 | 11.4mm  | 10   | AR-51-G      | ★E860081-S81  |
| M20.8 | 11.4mm  | 10   | AR-51-K      | ★E860215-S81  |
| 28mm  | 13.2mm  | 10   | AR-51-M      | W700936-S306  |
| 28mm  | 13.2mm  | 10   | AR-51-M      | W703355-S303  |
| M28   | 26.2mm  | 10   | AR-51-F      | E860083-S81   |
| M44   | 24.25mm | 10   | AR-51-L      | ★E801262-S72  |
| M35   |         | 11   | AR-53        | ★E860228-S100 |
| M6    | 26mm    | 12   | AR-54-E      | ★N804902-S2   |
| M13   | 19mm    | 12   | AR-54-AA     | N811884-S301  |
| M15   | 9.1mm   | 13   | AR-51-T      | ★N806452-S    |

## PH-180 RETAINER — QUICK-OPEN FASTENER



PH180

| SIZE | LOCATOR CODE | PART NUMBER  |
|------|--------------|--------------|
| 3/8" | WW-1-E       | ★388268-S100 |

## PH-151 RING — LOCK



PH151

| A      | B      | LOCATOR CODE | PART NUMBER |
|--------|--------|--------------|-------------|
| 39/64" | 15/32" | QQ-1         | ★357550-S   |

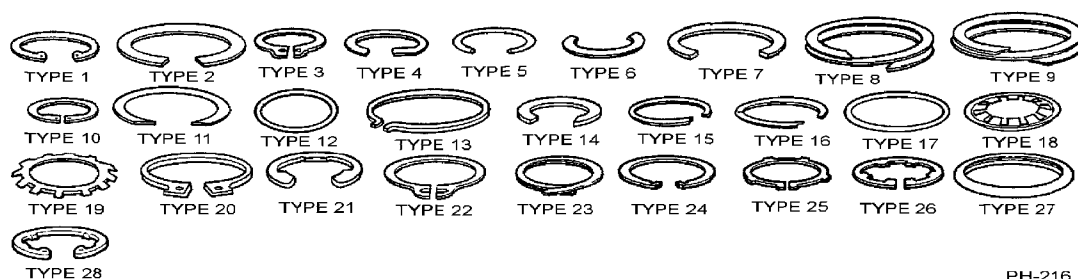
  

| Metric |      |        |               |
|--------|------|--------|---------------|
| M14.5  | 25.9 | QT-1   | W700860-S309M |
| M24    | 18.4 | QT-1-A | W706794-S300  |

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PH-216

RING — SNAP and RETAINING

PH-216  
12/08/1999

| OUTSIDE DIAMETER | INSIDE DIAMETER | THICKNESS | TYPE | LOCATOR CODE | PART NUMBER  |
|------------------|-----------------|-----------|------|--------------|--------------|
| 53/64"           | 23/32"          | 1/32"     | 1    | QQ-75-D      | ★374655-S    |
| 1-11/32"         | 1-5/32"         | 3/64"     | 1    | QQ-11        | ★353650-S100 |
| 1-7/8"           | 1-27/32"        | 1/16"     | 1    | QQ-13        | ★354278-S    |
| 3-31/64"         | 3-1/64"         | 1/16"     | 1    | QQ-14        | ★371365-S    |
| 1-3/16"          | 1"              | 1/16"     | 2    | QQ-14-G      | ★372510-S    |
| 1-21/64"         | 1-5/64"         | 5/64"     | 2    | QQ-15        | ★372511-S    |
| 1-1/2"           | 1-11/32"        | 5/64"     | 2    | QQ-16-EA     | 387031-S5    |
| 1-9/16"          | 1-13/32"        | 5/64"     | 2    | QQ-16-FA     | ★387035-S5   |
| 1-5/8"           | 1-3/8"          | 3/64"     | 2    | QQ-16-E      | ★377137-S    |
| 1-43/64"         | 1-27/64"        | 3/64"     | 2    | QQ-16-F      | 377138-S     |
| 2-3/16"          | 1-13/16"        | 3/32"     | 2    | QQ-20        | ★371362-S    |
| 2-27/64"         | 1-63/64"        | 7/64"     | 2    | QQ-22        | ★371366-S    |
| 2-35/64"         | 2-5/32"         | 3/32"     | 2    | QQ-23        | ★358855-S    |
| 2-37/64"         | 2-13/64"        | 3/32"     | 2    | QQ-25        | ★371048-S    |
| 2-53/64"         | 2-29/64"        | 3/32"     | 2    | QQ-26        | ★371049-S    |
| 3-11/32"         | 3-1/32"         | 1/16"     | 2    | QQ-31-B      | ★377133-S    |
| 3-13/32"         | 2-29/32"        | 1/8"      | 2    | QQ-31        | ★371047-S    |
| 9/32"            | 15/64"          | 1/32"     | 3    | QQ-33-M      | ★370062-S    |
| 3/8"             | 9/32"           | 1/32"     | 3    | QQ-34        | ★354261-S7   |
| 1/2"             | 29/64"          | 3/64"     | 3    | QQ-36        | ★389384-S2   |
| 1/2"             | 29/64"          | 3/64"     | 3    | QQ-36-A      | ★389384-S100 |
| 9/16"            | 29/64"          | 3/64"     | 3    | QQ-37        | ★370065-S7   |
| 3/4"             | 11/16"          | 1/64"     | 3    | QQ-38-A      | ★372876-S    |
| 27/32"           | 39/64"          | 3/64"     | 3    | QQ-38-B      | ★385252-S    |
| 1"               | 13/16"          | 1/32"     | 3    | QQ-38-E      | ★386387-S    |
| 1-3/16"          | 1-3/32"         | 3/64"     | 3    | QQ-41        | ★373452-S    |
| 1-11/32"         | 1-5/32"         | 3/64"     | 3    | QQ-40        | 371834-S     |
| 1-9/16"          | 1-17/64"        | 3/64"     | 3    | QQ-42        | ★373010-S    |
| 1-5/8"           | 1-1/2"          | 1/16"     | 3    | XX-16-E      | ★374424-S    |
| 5-15/32"         | 4-29/32"        | 7/64"     | 4    | QQ-82        | ★374426-S    |
| 2-41/64"         | 2-13/32"        | 1/8"      | 5    | QQ-59        | ★370958-S    |
| 2-23/32"         | 2-9/16"         | 5/64"     | 5    | QQ-61        | ★370582-S7   |
| 3"               | 2-3/4"          | 1/8"      | 5    | QQ-61-M      | ★384979-S    |
| 11/16"           | 19/32"          | 3/64"     | 6    | QQ-62-A      | ★376318-S    |
| 2-11/16"         | 2-1/4"          | 1/8"      | 6    | QQ-86        | ★374200-S    |
| 1-33/64"         | 1-9/32"         | 1/8"      | 7    | QQ-67        | ★354805-S    |
| 1-59/64"         | 1-49/64"        | 3/32"     | 7    | QQ-67-D      | ★377884-S    |
| 3-17/32"         | 3-1/4"          | 1/8"      | 7    | QQ-67-G      | 387573-S     |
| 27/64"           | 5/16"           | 3/64"     | 8    | QQ-45        | ★384978-S    |
| 1-7/32"          | 1-1/16"         | 3/64"     | 8    | QQ-68        | ★372401-S    |
| 1-5/16"          | 1-7/32"         | 1/32"     | 8    | QQ-69        | ★372292-S    |
| 53/64"           | 5/8"            | 1/32"     | 10   | QQ-75-M      | ★387254-S    |
| 3-31/32"         | 3-5/16"         | 1/64"     | 11   | QQ-81-A      | 388216-S     |
| 3-19/64"         | 3-1/8"          | 1/16"     | 11   | QQ-81        | ★378392-S    |
| 7"               | 6-13/16"        | 7/64"     | 11   | QQ-100-E     | 386841-S     |
| 7"               | 6-13/16"        | 7/64"     | 11   | QQ-100-E     | 386841-SVMR  |
| 7"               | 6-13/16"        | 1/8"      | 11   | QQ-100-F     | ★386842-S    |
| 7"               | 6-13/16"        | 1/8"      | 11   | QQ-100-F     | 386842-SVMR  |
| 7"               | 6-13/16"        | 1/8"      | 11   | QQ-100-FA    | 386842-S21   |
| 1-13/16"         | 1-5/8"          | 3/32"     | 12   | QQ-83        | ★378254-S    |
| 1-11/64"         | 29/32"          | 1/16"     | 14   | QQ-92-AA     | ★371930-S    |

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RING — SNAP and RETAINING (Cont'd)

| OUTSIDE DIAMETER | INSIDE DIAMETER | THICKNESS | TYPE | LOCATOR CODE | PART NUMBER  |
|------------------|-----------------|-----------|------|--------------|--------------|
| 1-3/4"           | 1-1/2"          | 1/8"      | 14   | QQ-92-J      | ★388104-S    |
| 2-7/32"          | 1-7/8"          | 5/32"     | 14   | QQ-92-JK     | 388104-S2    |
| 2-7/32"          | 1-7/8"          | 5/32"     | 14   | QQ-92-JJ     | 388099-S     |
| 2-1/4"           | 2-1/16"         | 1/16"     | 14   | QQ-92-H      | ★383691-S    |
| 3-9/16"          | 3-19/64"        | 3/64"     | 14   | QQ-92-B      | 377136-S     |
| 3-3/4"           | 3-1/4"          | 3/64"     | 14   | QQ-92-L      | ★389790-S    |
| 3-13/16"         | 3-5/16"         | 1/4"      | 14   | QQ-92-K      | ★388500-S    |
| 4-63/64"         | 4-53/64"        | 7/64"     | 15   | QQ-92-E      | ★378871-S    |
| 5"               | 4-11/16"        | 1/16"     | 15   | QQ-92-F      | ★378875-S    |
| 5"               | 4-11/16"        | 3/32"     | 15   | QQ-93-A      | ★378876-S    |
| 5-1/4"           | 4-15/16"        | 5/64"     | 15   | QQ-93        | ★378260-S    |
| 1-13/16"         | 1-19/32"        | 1/8"      | 16   | QQ-94-F      | ★97626-S     |
| 2-1/8"           | 1-7/8"          | 1/8"      | 16   | QQ-94-C      | ★97631-S     |
| 3-1/2"           | 3-5/32"         | 5/32"     | 16   | QQ-94-D      | 388216-S     |
| 3-13/16"         | 3-21/32"        | 1/8"      | 16   | QQ-94-B      | ★388215-S    |
| 3-13/16"         | 3-21/32"        | 1/8"      | 16   | QQ-94-G      | 388215-S100  |
| 4-1/4"           | 4"              | 1/16"     | 16   | QQ-94        | ★378874-S    |
| 4-3/32"          | 3-31/32"        | 3/64"     | 16   | QQ-93-D      | ★377135-S    |
| 4-25/32"         | 4-17/32"        | 1/16"     | 16   | QQ-94-A      | 377132-S     |
| 5-45/64"         | 5-11/32"        | 1/16"     | 16   | QQ-94-E      | ★377155-S    |
| 7"               | 6-13/16"        | 1/16"     | 16   | QQ-95        | 377126-S     |
| 7"               | 6-13/16"        | 1/16"     | 16   | QQ-98-H      | 377437-S     |
| 7"               | 6-13/16"        | 5/64"     | 16   | QQ-96        | 377127-S     |
| 7"               | 6-13/16"        | 3/32"     | 16   | QQ-97        | 377128-S     |
| 7"               | 6-13/16"        | 3/32"     | 16   | QQ-98-B      | 377444-S     |
| 7-15/32"         | 7-1/8"          | 5/64"     | 16   | QQ-99-A      | ★385044-S    |
| 2"               | 1-13/16"        | 3/32"     | 17   | QQ-105       | 377300-S     |
| 1"               | 9/16"           | 1/64"     | 18   | QQ-106       | ★390261-S100 |
| 1-29/64"         | 1-1/8"          | 1/64"     | 19   | QQ-111-C     | ★383163-S    |
| 2"               | 1-1/2"          | 3/32"     | 19   | QQ-111-B     | ★389587-S100 |
| 2-1/16"          | 1-5/8"          | 1/16"     | 19   | QQ-111       | ★389460-S2   |
| 7-7/32"          | 7-1/8"          | 1/16"     | 20   | QQ-115-C     | 388501-S     |
| 1-13/16"         | 1-5/8"          | 1/16"     | 24   | QQ-120-E     | 391098-S36M  |

## Metric

|        |           |        |   |         |               |
|--------|-----------|--------|---|---------|---------------|
| M18    | 15.1mm    | 1mm    | 1 | AQ-3-E  | ★E660118-S    |
| M23    | 24.5mm    | 1.16mm | 1 | AQ-2-A  | N660225-S2    |
| M25.9  | 25mm      | 1.6mm  | 1 | AQ-3-M  | W702931-S300  |
| M28    | 24.3mm    | 1.2mm  | 1 | AQ-3-K  | ★E660128-S    |
| M35    | 28.4mm    | 1.3mm  | 1 | AQ-3-L  | ★N660234-S    |
| M57.80 | 62mm      | 2.08mm | 1 | AQ-3-R  | ★N660250-S2   |
| M68    | 76.7mm OD | 2.48mm | 1 | AQ-3-U  | N660255-S     |
| M19.71 | 17.33mm   | 1.19mm | 2 | AQ-17   | ★W701132-S309 |
| M27    | 24mm      | 2.4mm  | 2 | AQ-16   | N803200-S     |
| M173   | 13.5mm    | 3.5mm  | 2 | AQ-35-Y | W702465-S300  |
| M11    | 8mm       | 0.8mm  | 3 | AQ-70-D | ★E860131-S    |
| M15.5  | 14.2mm    | 1mm    | 3 | AQ-8-B  | ★E860153-S    |
| M20    | 17.5mm    | 1.9mm  | 3 | AQ-8-H  | ★E860063-S85  |
| M20.8  | 18mm      | 1.2mm  | 3 | AQ-8-HB | N805060-S     |
| M21    | 18.5mm    | 1.2mm  | 3 | AQ-8-HA | ★E661120-S85  |
| M25    | 23mm      | 2mm    | 3 | AQ-8-HC | E860527-S     |
| M31    | 25mm      | 1.2mm  | 3 | AQ-8-E  | ★E661125-S    |
| M34    | 26mm      | 1.3mm  | 3 | AQ-8-G  | ★E860132-S    |
| M34.6  | 27.9mm    | 1.3mm  | 3 | AQ-8-GE | N805338-S2    |
| M43.5  | 37mm      | 1.75mm | 3 | AQ-8-GP | ★N805540-S2   |
| M46.4  | 38mm      | 1.75mm | 3 | AQ-8-K  | ★E661138-S    |
| M48.2  | 33mm      | 1.7mm  | 3 | AQ-8-F  | ★E661136-S85  |
| M80    | 74.7mm    | 2.48mm | 3 | AQ-8-R  | ★N661251-S2   |
| M24    | 14mm      | 1mm    | 4 | AQ-9-A  | ★E661116-S    |
| M27.43 | 19.3mm    | 1.5mm  | 4 | AQ-9    | ★N802967-S    |
| M7.0   | 15.75mm   | 18.3mm | 5 | AN-3-NC | ★N802525-S100 |
|        | 20.5mm    |        | 5 | AQ-10-F | ★E860203-S101 |
| M20.7  | 18mm      | 1.3mm  | 5 | AQ-10-C | ★N801098-S    |

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|   |                 |           |      |              |                |
|---|-----------------|-----------|------|--------------|----------------|
| 222                                       |                 |           |      |              |                |
| Standard and Utility Parts Catalog        |                 |           |      |              |                |
| PH-216 RING — SNAP and RETAINING (Cont'd) |                 |           |      |              |                |
| OUTSIDE DIAMETER                          | INSIDE DIAMETER | THICKNESS | TYPE | LOCATOR CODE | PART NUMBER    |
| M27.20                                    | 22.32mm         | 2.44mm    | 5    | AQ-10-D      | ★ N802800-S    |
| M31                                       | 25mm            | 2.8mm     | 5    | AQ-10-E      | ★ N800566-S    |
| M60.15                                    | 57.15mm         | 1.5mm     | 5    | AQ-47-E      | ★ N801076-S2   |
| M24.4                                     | 20.7mm          | 2.5mm     | 7    | AQ-67-A      | ★ N804139-ST   |
| M26.30                                    | 24mm            | 2.50mm    | 7    | AQ-67        | N804139-S      |
| M30                                       | 25.6mm          | 2.2mm     | 7    | AQ-67-C      | W707241-S300   |
| M21.09                                    | 17.85mm         | 0.78mm    | 8    | AQ-9-E       | ★ N801096-S    |
| 51.8                                      | 41.9mm          | 1.81mm    | 10   | AQ-9-C       | W704579-S430   |
| M23                                       | 20.5mm          | 1.2mm     | 11   | AQ-13-D      | ★ E860082-S    |
| M23.5                                     | 20mm            | 1.75mm    | 11   | AQ-13-E      | ★ E860171-S    |
| M11.45                                    | 7.49mm          | Rubber    | 12   | AQ-13-G      | ★ W701993      |
| M11.95                                    | 8.03mm          | 1.96mm    | 12   | AQ-13-F      | W701422-S300   |
| 18.55mm                                   | 15.55mm         | 3.0mm     | 12   | AQ-13-FA     | W708418-S300   |
| Rubber                                    | 20.5mm          | 3.63mm    | 12   | AQ-13-FB     | W704589-S300   |
| M23.2                                     | 20mm            | 1.6mm     | 13   | AQ-20-E      | ★ E860166-S    |
| M25                                       | 22mm            | 1.6mm     | 13   | AQ-20-J      | ★ E860189-S    |
| M25.2                                     | 22mm            | 1.6mm     | 13   | AQ-20-H      | ★ E860168-S    |
| M83                                       | 75mm            | 1.6mm     | 13   | AQ-20-M      | ★ N803202-S    |
| M11.6                                     | 108mm           | 1.32mm    | 14   | AQ-30-T      | ★ N800644-S    |
| M20.8                                     | 16mm            | 0.41mm    | 14   | AQ-30-B      | ★ N800642-S    |
| M26.36                                    | 25.50mm         | 1.0mm     | 14   | AQ-30-G      | N803178-S      |
| M29.30                                    | 24.30mm         | 1.28mm    | 14   | AQ-30-A      | ★ N802801-S    |
| M30.80                                    | 24.10mm         | 2.78mm    | 14   | AQ-30-C      | ★ N802968-S    |
| M40.2                                     | 34mm            | 1.3mm     | 14   | AQ-30-D      | E860109-S      |
| M40.5                                     | 37.5mm          | 1.27mm    | 14   | AQ-3-A       | W704670-S309   |
| M64                                       | 57mm            | 1.27mm    | 14   | AQ-30-M      | ★ N800643-S    |
| M67                                       | 60mm            | 1.25mm    | 14   | AQ-30-E      | N803048-S      |
| M70.8                                     | 62mm            | 1.3mm     | 14   | AQ-30-K      | E860125-S      |
| M85                                       | 80mm            | 1.30mm    | 14   | AQ-30-F      | N803053-S      |
| M39.7                                     | 37.1mm          | 1.65mm    | 15   | AQ-8-GL      | ★ N800620-S2   |
| M88.2                                     | 80.2mm          | 1.3mm     | 15   | AQ-35-D      | E860120-S      |
| M112.6                                    | 104.6mm         | 1.6mm     | 15   | AQ-35-F      | E860119-S      |
| M128                                      | 120mm           | 1.37mm    | 15   | AQ-35-H      | E860115-S      |
| M128                                      | 120mm           | 1.73mm    | 15   | AQ-35-K      | E860116-S      |
| M128                                      | 120mm           | 2.08mm    | 15   | AQ-35-M      | E860117-S      |
| M128                                      | 120mm           | 2.44mm    | 15   | AQ-35-P      | E860118-S      |
| M131.25                                   | 123.25mm        | 1.37mm    | 15   | AQ-35-R      | E860126-S      |
| M131.25                                   | 123.25mm        | 1.73mm    | 15   | AQ-35-T      | E860127-S      |
| M131.25                                   | 123.25mm        | 2.08mm    | 15   | AQ-35-V      | E860128-S      |
| M131.25                                   | 123.25mm        | 2.44mm    | 15   | AQ-35-X      | E860129-S      |
|   |                 |           | 16   | AQ-40-L      | ★ N800645-S    |
| M71                                       | 66.8mm          | 1.5mm     | 16   | AQ-40-H      | ★ E860106-S    |
| M87                                       | 79.8mm          | 1.3mm     | 16   | AQ-40-K      | E860122-S      |
| M133.5                                    | 129.5mm         | .25mm     | 16   | AQ-40-A      | W702775-S300   |
| M156                                      | 151.8mm         | 1.9mm     | 16   | AQ-40-J      | N803197-S      |
| M6.45                                     | 2.62mm          | .13mm     | 17   | AQ-45-E      | W702643-S300   |
| M8.87                                     | 2.09mm          | .13mm     | 17   | AQ-45-Z      | W701686-S100   |
| M9.9                                      | 9.32mm          |           | 17   | AQ-45-J      | ★ W702645-S100 |
| M9.19                                     | 2.62mm          | .13mm     | 17   | AQ-45-F      | ★ W702645-S300 |
| M11.60                                    | 2.62mm          | .13mm     | 17   | AQ-45-G      | ★ W702647-S300 |
| M14.35                                    | 2.62mm          | .13mm     | 17   | AQ-45-H      | ★ W702649-S300 |
| M20.70                                    | 20.51mm         | 1.67mm    | 17   | AQ-45-H      | n801091-S      |
| M39                                       | 34.2mm          | 2.4mm     | 17   | AQ-45-D      | E860121-S      |
| M32                                       | 24mm            | 1.5mm     | 18   | AQ-46        | ★ N801578-S100 |
| M38                                       | 27.7mm          | 2mm       | 18   | AQ-46-A      | ★ E866235-S76  |
| M25.5                                     | 29.5mm          | 1.27mm    | 19   | AQ-52-J      | ★ N805542-S2   |
| M42                                       | 37mm            | 1.5mm     | 19   | AQ-52-G      | ★ N802111-S100 |
| M42.9                                     | 24.7mm          | 22.9mm    | 19   | AQ-52-K      | W701826-S426   |
| M45                                       | 37mm            | 2.15mm    | 19   | AQ-52-H      | ★ N802111-S101 |
| M19.5                                     | 15.3mm          | 1mm       | 20   | AQ-80-E      | ★ E860042-S76  |
| M20                                       | 58.6mm          | 4.5mm     | 20   | AQ-80-H      | W700196-S300   |
| 35mm                                      | 32.05mm         | 2mm       | 20   | AQ-80-L      | W701742-S430   |
| M46                                       | 39.7mm          | 1.65mm    | 20   | AQ-80-D      | N801195-S2     |
| (continued)                               |                 |           |      |              |                |

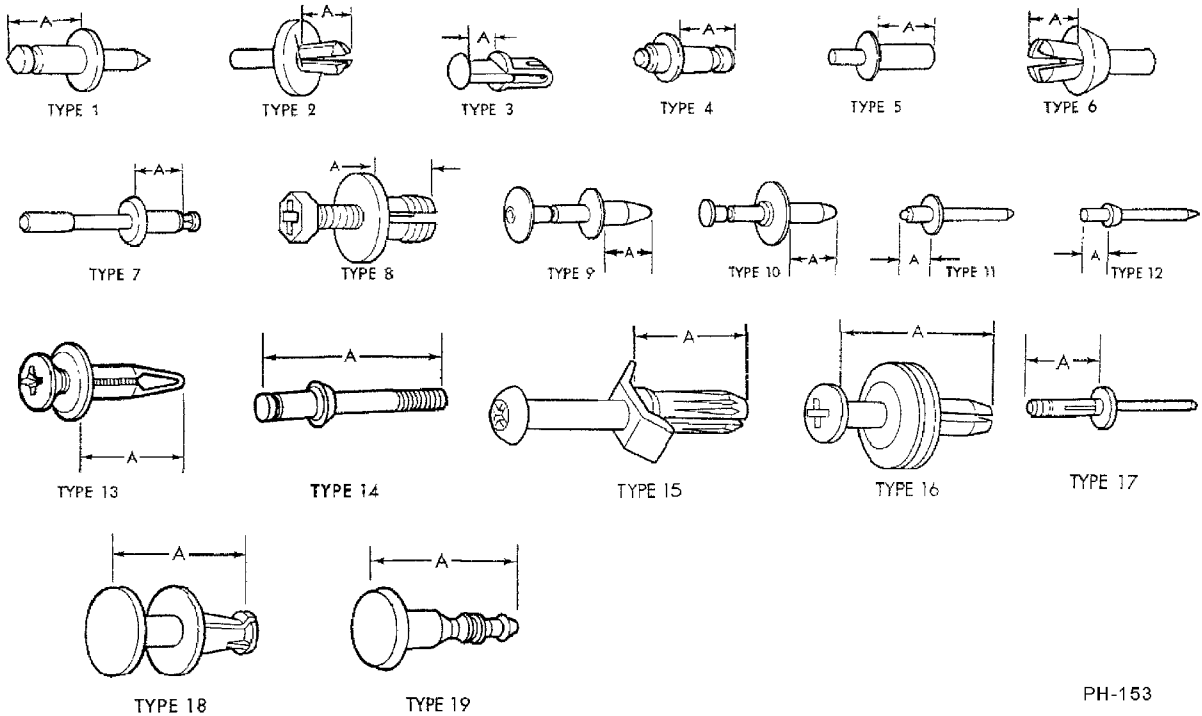
PH-216

RING — SNAP and RETAINING (Cont'd)

| Metric (Cont'd)  |                 |           |      |              |                |
|------------------|-----------------|-----------|------|--------------|----------------|
| OUTSIDE DIAMETER | INSIDE DIAMETER | THICKNESS | TYPE | LOCATOR CODE | PART NUMBER    |
| M4.5             | 1.9mm           | 0.52mm    | 21   | AQ-11-B      | ★ W527000-S300 |
| M6.35            | 6.35mm          | .94mm     | 21   | AQ-11-A      | N808893-S      |
| 9.55mm           | 3.12mm          | .74mm     | 21   | AQ-11        | W710420-S437   |
| 9.55mm           | 3.12mm          | .74mm     | 21   | AQ-11        | W710420-S437M  |
| 14mm             | 7mm             | 0.92mm    | 21   | AQ-11-C      | ★ W527006-S300 |
| M20              | 19.15mm         | 1.12mm    | 21   | AQ-11-G      | N811058-S      |
| M21.84           | 9.73mm          | 2.39mm    | 21   | AQ-11-A      | N804195-S2     |
| M25.4            | 15.6mm          | 1.2mm     | 21   | AQ-11-E      | N805404-S      |
| M25.7            | 15.72mm         | 1.33mm    | 21   | AQ-11-F      | N808704-S      |
| M4               | 3.65mm          | .3mm      | 22   | AQ-80-H      | ★ N661200-S    |
| M6.4             | 55.6mm          | 7.15mm    | 22   | AQ-80-K      | W700068-S300   |
| 40.54mm          | 35.5mm          | 3.38mm    | 22   | AQ-80-JA     | W704670-S437   |
| M30.14           | 30mm            | .07mm     | 23   | AQ-80-J      | ★ 120837-ES    |
| M72              | 67mm            | 1.5mm     | 24   | AQ-81        | E860343-S      |
| M83              | 72mm            | 2.28mm    | 24   | AQ-81-A      | N803955-S      |
| M91              | 93mm            | 4mm       | 24   | AQ-81-AB     | W702777-S300   |
| M33              | 24.2mm          | 1.2mm     | 25   | AQ-82        | ★ E860319-S    |
| M33.7            | 23.4mm          | 1.2mm     | 26   | AQ-83        | ★ E860096-S    |
| M19.8            | 19.8mm          |           | 27   | AQ-83-B      | ★ W701317-S    |
| 53mm             | —               | 5.5mm     | 27   | AQ-83-C      | W707299-S300   |
| M65              | 1.3mm           | .18mm     | 27   | AQ-83-A      | W700319-S300   |
| 46mm             | 4mm             | —         | 27   | AQ-83-D      | W703273-S300   |
| M57.5            | 45.5mm          | 2.08mm    | 28   | AQ-84        | N808845-S      |
| 16mm             | 3.5mm           | 4mm       | 28   | AQ-86        | W700298-S301   |
| 16mm             | 3.5mm           | 4mm       | 28   | AQ-86        | W700298-S302   |
| 16mm             | 3.5mm           | 4mm       | 28   | AQ-86        | W700298-S309   |
| 16mm             | 3.5mm           | 4mm       | 28   | AQ-86        | W700298-S438   |



## PH-153 RIVET — BLIND



PH-153

| DIAMETER | A      | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|----------|------|--------------|--------------|
| 1/8"     | 1/4"   | Steel    | 1    | SS-44-DB     | 383554-S100  |
| 1/8"     | 9/32"  | Steel    | 1    | SS-44-DA     | 375936-S     |
| 1/8"     | 5/16"  | Steel    | 1    | SS-44-E      | 383229-S     |
| 1/8"     | 11/32" | Steel    | 1    | SS-44        | 375203-S     |
| 1/8"     | 3/8"   | Aluminum | 1    | SS-44-C      | 376807-S     |
| 1/8"     | 7/16"  | Steel    | 1    | SS-44-D      | 382568-S2    |
| 1/8"     | 27/64" | Aluminum | 1    | SS-44-CA     | 388524-S     |
| 3/16"    | 3/8"   | Aluminum | 1    | SS-44-HB     | 388869-S     |
| 3/16"    | 13/32" | Steel    | 1    | SS-44-H      | 382602-S100  |
| 3/16"    | 7/16"  | Aluminum | 1    | SS-45-H      | 380334-S     |
| 3/16"    | 15/32" | Steel    | 1    | SS-44-G      | 380098-S2    |
| 3/16"    | 9/16"  | Aluminum | 1    | SS-45-G      | 380335-S2    |
| 3/16"    | 13/32" | Steel    | 1    | SS-45-P      | 380098-S306  |
| 3/16"    | 23/32" | Aluminum | 1    | SS-45-L      | 388664-S100  |
| 1/4"     | 15/32" | Steel    | 1    | SS-44-L      | 382601-S100  |
| 1/4"     | 5/8"   | Steel    | 1    | SS-44-N      | ★382707-S36  |
| 1/4"     | 15/16" | Aluminum | 1    | SS-45-R      | 385323-S100  |
| 1/4"     | 3/4"   | Nylon    | 1    | SS-50-E      | 391174-S100  |
| 1/4"     | 5/8"   | Aluminum | 4    | SS-47-B      | 385189-S100  |
| 1/8"     | 3/8"   | Aluminum | 5    | SS-48        | 381500-S     |
| 3/16"    | 23/32" | Steel    | 5    | SS-48-A      | 390428-S100  |
| 1/4"     | 15/32" | Nylon    | 6    | SS-49-D      | 387843-S     |
| 1/4"     | 1/2"   | Steel    | 7    | SS-49-F      | 391174-S43   |
| 0.265    | 0.423  | Steel    | 7    | SS-49-A      | 390749-S100  |
| 15.23    | 24.56  | Steel    | 11   | SS-17-A      | W525175-S300 |
| 1/8"     | 0.275  | Steel    | 11   | SS-17-AB     | 389205-S43   |

**PH-153**
**RIVET — BLIND (Cont'd)**

| Metric |         |                 |    |          |               |
|--------|---------|-----------------|----|----------|---------------|
| M3.4   | 7.4mm   | Aluminum        | 1  | AS-1-AA  | N805759-S100  |
| M4.8   | 10mm    | Steel           | 1  | AS-1-G   | E647557-S71   |
| 4.8mm  | 11.1mm  | Aluminum        | 1  | AS-1-M   | W707268-S300  |
| 4.8mm  | 13.10mm | Aluminum        | 1  | AS-1-N   | W710814-S300  |
| M5     | 29mm    | Aluminum        | 1  | AS-1-L   | N805592-S100  |
| M5     | 30mm    | Aluminum        | 1  | AS-1-K   | N805592-S100  |
| M6.3   | 17.0mm  | Aluminum        | 1  | AS-1-K   | N808426-S100  |
| M6.15  | 31.75mm | Aluminum        | 1  | AS-2-K   | N811018-S100  |
| M6.58  | 29.82mm | Steel           | 1  | AS-1-J   | ★N805268-S100 |
| 6mm    | 40mm    | Steel           | 4  | AS-11-EA | W701780-S309  |
| M6.8   | 15.75mm | Steel           | 4  | 540-630  | N808827-S36   |
| M5     | 17mm    | Plastic         | 5  | AS-6-A   | N804863-S     |
| M6.3   | 28mm    | Plastic         | 5  | AS-6     | N803043-S     |
| M10    | 16.51mm | —               | 6  | AS-15-AA | W703092-S300  |
| M4     | 10.54mm | Aluminum        | 7  | AS-4-C   | N803230-S100  |
| 4mm    | 12.70mm | Stainless Steel | 7  | AS-4-CA  | W708450-S300  |
| M4.0   | 18mm    | Aluminum        | 7  | AS-4-D   | W704490-S300  |
| 4.8mm  | 35.20mm | Steel           | 5  | AS-6-B   | W704369-S309  |
| M4.7   | 11.8mm  | Aluminum        | 7  | AS-4-A   | N801733-S     |
| M4.8   | 10.6mm  | Steel           | 7  | AS-4-B   | ★N806021-S    |
| M4.8   | 15.3mm  | Aluminum        | 7  | AS-4     | N803138-S     |
| M5     | 10mm    | Aluminum        | 7  | AS-5     | W710418-S900  |
| M6.3   | 17mm    | Nylon           | 7  | AS-14-A  | N803739-S     |
| M6.4   | 13.59mm | Aluminum        | 7  | AS-15-C  | W525172-S417  |
| M6.4   | 17.78mm | Aluminum        | 7  | AS-15-B  | W701566-S417  |
| M6.7   | 24.8mm  | Aluminum        | 7  | AS-4-DD  | W705636-S     |
| M6     | 14mm    | Nylon           | 8  | AS-3-A   | N805231-S     |
| M8.8   | 21mm    | Nylon           | 9  | AS-13-F  | N807389-S     |
| M3.2   | 14.93mm | —               | 10 | AS-13-H  | ★W707504-S900 |
| M4.8   | 27mm    | Aluminum        | 10 | AS-13-G  | W525170-S300  |
| M4.9   | 30.0mm  |                 | 10 | AS-13-H  | W709653-S309  |
| M6.3   | 22.8mm  | Nylon           | 10 | AS-7-B   | N803709-S     |
| M6.4   | 30.65mm | Aluminum        | 10 | AS-7-C   | W705528-S300  |
| M7.4   | 22.3mm  | Plastic         | 10 | AS-7-A   | N804614-S     |
| M8     | 24.3mm  | Plastic         | 10 | AS-21-G  | W701054-S300  |
| 3.2mm  | 11.38mm | Steel           | 11 | AS-10-AB | W707620-S300  |
| M3.2   | 13.7mm  | Aluminum        | 11 | AS-10-EA | W708993-S417  |
| M3.91  | 23mm    | Plastic         | 11 | AS-10-E  | N804583-S     |
| M4.75  | 29.44mm | Aluminum        | 11 | AS-10-L  | N807168-S     |
| M4.85  | 11.6mm  | Aluminum        | 11 | AS-10-FC | N806090-S100  |
| M5     | 15.5mm  | Nylon           | 11 | AS-10-DA | N804189-S     |
| M6.3   | 20.6mm  | Nylon           | 11 | AS-10-D  | ★N803945-S    |
| 6.6    | 12.7mm  | Steel           | 11 | AS-10-DE | W706770-S309  |

(continued)

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Standard and Utility Parts Catalog

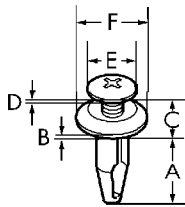
PH-153

RIVET — BLIND (Cont'd)

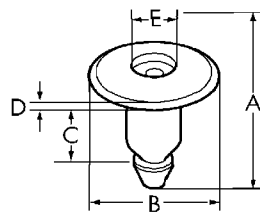
Metric (Cont'd)

| DIAMETER | A       | MATERIAL                  | TYPE | LOCATOR CODE | PART NUMBER     |
|----------|---------|---------------------------|------|--------------|-----------------|
| M3       | 11mm    | Aluminum                  | 12   | AS-16-B      | E844042-S       |
| 3.2      | 10.41mm | Steel                     | 12   | AS-16-DA     | W709173-S417    |
| M3.15    | 11.8mm  | Steel                     | 12   | AS-16-G      | N806126-S100    |
| M4.0     | 23.8mm  | Aluminum                  | 12   | AS-16-F      | N811396-S100    |
| M5       | 17.5mm  | Nylon                     | 13   | AS-17-C      | N805229-S       |
| M6.3     | 22mm    | Nylon-Ebony               | 13   | AS-17-GG     | W706350-SAA     |
| M6.3     | 22.8mm  | Nylon                     | 13   | AS-17        | N803946-SW      |
| M6.3     | 22.8mm  | Nylon                     | 13   | AS-17-D      | ★ N803946-S2    |
| M6.3     | 22.8mm  | Nylon                     | 13   | AS-17-A      | N804570-S       |
| M6.3     | 22.8mm  | Nylon                     | 13   | AS-17-B      | N804837-S5P     |
| 6.3      | 22.8mm  | Nylon-Med Dk<br>Parchment | 13   | AS-17-GA     | W706555-SSA     |
| M6.3     | 22.8mm  | Nylon-Black               | 13   | AS-17-G      | W706555-SSW     |
| 6.3      | 22.8mm  | Nylon-Med Dk<br>Graphite  | 13   | AS-17-GB     | W706555-SSB     |
| 6.3      | 22.8mm  | Nylon-Ebony               | 13   | AS-17-GC     | W706555-SSC     |
| 6.3      | 22.8mm  | Nylon-Med<br>Dk Flint     | 13   | AS-17-GF     | W706555-SSD     |
| 6.3      | 22.8mm  | Nylon-Med<br>Parchment    | 13   | AS-17-GD     | W706555-SSK     |
| 6.3      | 22.8mm  | Nylon-Med Dk<br>Graphite  | 13   | AS-17-GE     | W706555-SSL     |
| 6.3      | 22.8mm  | Nylon-Med<br>Pebble       | 13   | AS-17-GW     | ★ W706555-SS03T |
| 6.3      | 22.8mm  | Nylon-Dk Flint            | 13   | AS-17-GX     | ★ W706555-SS32N |
| 4.0      | 15.3mm  | Aluminum                  | 14   | AS-17-FB     | W525155-S300    |
| 4.0      | 15.3mm  | Aluminum                  | 14   | AS-17-FB     | W525155-S303    |
| 4.8      | 21.3mm  | Aluminum                  | 14   | AS-17-FA     | W525159-S300    |
| M4.8     | 27.6mm  | Steel                     | 14   | AS-17-F      | N811119-S36B    |
| M6.3     | 54.8mm  | Aluminum                  | 14   | AS-19-B      | N804193-S100    |
| M6.3     | 56mm    | Nylon                     | 14   | AS-19-E      | ★ N803862-S101  |
| M6.3     | 63mm    | Steel                     | 14   | AS-19-D      | N806002-S100    |
| 6.6mm    | 52.35mm | Steel                     | 14   | AS-20-B      | W707874-S300    |
| M6.3     | 12.5mm  | Nylon                     | 16   | AS-20-F      | 99265-0625      |
| M6.3     | 23.7mm  | Nylon                     | 16   | AS-20-D      | N806322-S       |
| M6.3     | 27mm    | Nylon                     | 16   | AS-20        | N805509-S       |
| M8       | 18mm    | Nylon                     | 16   | AS-20-EA     | W706494-S300    |
| M4.4     | 14.5mm  | Aluminum                  | 17   | AS-21-D      | W700636-S303    |
| M4.9     | 18.4mm  | Aluminum                  | 17   | 540-630      | 391950-S        |
| M5       | 29mm    | Aluminum                  | 17   | AS-21-C      | N805592-S100    |
| 5.0mm    | 17.0mm  | Black                     | 17   | AS-21-A      | N804343-S435    |
| M6.3     | 13.72mm | Steel                     | 17   | AS-21-DD     | W703756-S300    |
| M6.3     | 25mm    | Aluminum                  | 17   | AS-21-DD     | W704342-S300    |
| 6.4      | 18.39mm | Aluminum-Green            | 17   | AS-21-AA     | W525174-S300    |
| 9.53mm   | 12.95mm | Alum/Steel                | 17   | AS-21-AA     | W710339-S300    |
| M10      | 24.8mm  | Med Dk Graphite           | 19   | AS-22-A      | W705636-SSW     |
| M14.0    | 21.75mm | Plastic                   | 19   | AS-22        | N807673-S       |

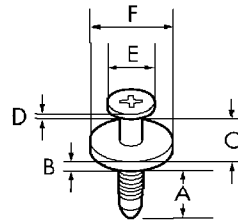
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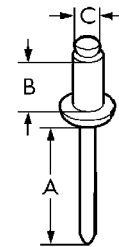
TYPE 1



TYPE 2



TYPE 3



TYPE 4

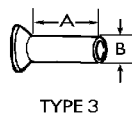
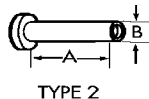
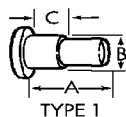
PH-153A  
11/24/2004

| NOMINAL SIZE | A      | B      | C      | D     | E     | F      | COLOR              | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|--------|--------|--------|-------|-------|--------|--------------------|------|--------------|---------------|
| 5.8mm        | 17.8mm | 1.0mm  | 8.1mm  | 1.0mm | —     | 12.0mm | —                  | 1    | AS-17-J      | W710165-S300  |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Med Dark Graphite  | 1    | AS-17-GH     | W706350-S     |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Ebony              | 1    | AS-17-GG     | W706350-SAA   |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Med Pebble         | 1    | AS-17-GJ     | W706350-SSA   |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Med Dark Flint     | 1    | AS-17-GK     | W706350-SSC   |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Dark Flint         | 1    | AS-17-GL     | W706350-SSB   |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Med Dark Parchment | 1    | AS-17-GM     | W706350-SSW   |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Dark Graphite      | 1    | AS-17-GN     | W706350-SSX   |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Black              | 1    | AS-17-GP     | W706350-S300  |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | —                  | 1    | AS-17-GR     | W706350-S3000 |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Med Parchment      | 1    | AS-17-GS     | W706350-SBA   |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Med Graphite       | 1    | AS-17-GT     | W706350-SBB   |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Lt Parchment       | 1    | AS-17-GU     | W706350-SS3BJ |
| 6.3mm        | 2.3mm  | 1.0mm  | 3.0mm  | 1.0mm | 10mm  | 15.5mm | Med Ash            | 1    | AS-17-GV     | W706350-SS33N |
| 8.0mm        | 20mm   | 1.0mm  | —      | 1.0mm | 10mm  | 15mm   | Med Parchment      | 1    | AS-17-HA     | W706264-SSA   |
| 8.0mm        | 20mm   | 1.0mm  | —      | 1.0mm | 10mm  | 15mm   | —                  | 1    | AS-17-HA     | W706264-S300  |
| 6.8mm        | 20.4mm | 16mm   | 11.7mm | 1.5mm | 5.4mm | 6.8mm  | —                  | 2    | AS-18-AA     | N808452-S     |
| 6.8mm        | 20.4mm | 16mm   | 11.7mm | 1.5mm | 5.4mm | 6.8mm  | Black              | 2    | AS-18-AB     | N808452-SBB   |
| 6.8mm        | 20.4mm | 16mm   | 11.7mm | 1.5mm | 5.4mm | 6.8mm  | Med Dark Flint     | 2    | AS-18-AC     | N808452-SEE   |
| 6.8mm        | 20.4mm | 16mm   | 11.7mm | 1.5mm | 5.4mm | 6.8mm  | Med Dark Graphite  | 2    | AS-18-AD     | N808452-SGG   |
| 6.8mm        | 20.4mm | 16mm   | 11.7mm | 1.5mm | 5.4mm | 6.8mm  | Med Dark Parchment | 2    | AS-18-AE     | N808452-SHH   |
| 6.8mm        | 20.4mm | 16mm   | 11.7mm | 1.5mm | 5.4mm | 6.8mm  | Med Dark Pebble    | 2    | AS-18-AB     | N808452-SPP   |
| 6.3mm        | 19mm   | 2.5mm  | 11mm   | 1.0mm | 10mm  | 17.8mm | —                  | 3    | AS-19-ZA     | W706207-S300  |
| 8.8mm        | 19.9mm | 1.5mm  | 6.7mm  | —     | —     | 18.8mm | Dark Graphite      | 3    | AS-19-ZB     | W707242-SAA   |
| 8.8mm        | 19.9mm | 1.5mm  | 6.7mm  | —     | —     | 18.8mm | Satin Nickel       | 3    | AS-19-CW     | W707242-SAB   |
| 4.0mm        | 27.0mm | 8.9mm  | 3.89mm | —     | —     | —      | —                  | 4    | WG-101-A     | W525103-S309  |
| 4.8mm        | 27.0mm | 18.3mm | 4.65mm | —     | —     | —      | —                  | 4    | WG-101-E     | W525108-S300  |
| 4.8mm        | 27.0mm | 9.8mm  | 4.65mm | —     | —     | —      | —                  | 4    | WG-101-B     | W525106-S427  |
| 4.8mm        | 27.0mm | 13.8mm | 4.65mm | —     | —     | —      | —                  | 4    | WG-101-C     | W525107-S303  |

# Standard and Utility Parts Catalog

PH-154

RIVET — SEMI-TUBULAR

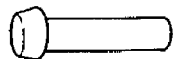


PH-154

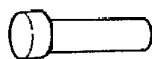
| Metric |         |   |      |              |              |
|--------|---------|---|------|--------------|--------------|
| A      | B       | C | TYPE | LOCATOR CODE | PART NUMBER  |
| M4     | 11.18mm | — | 1    | AS-8-EB      | N807961-S100 |
| M4     | 11.18mm | — | 1    | AS-8-EB      | N807961-S424 |
| M6     | 8.4mm   | — | 2    | AS-8-EA      | N801341-S    |
| .50    | .126mm  | — | 2    | AS-8-ED      | 377727-S     |

PH-114

RIVET — SOLID



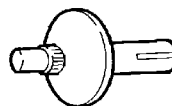
TYPE 1



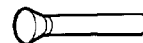
TYPE 2



TYPE 3



TYPE 4



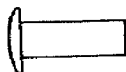
TYPE 5

PH-114  
12/08/1999

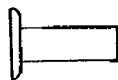
| Metric   |        |        |      |              |              |
|----------|--------|--------|------|--------------|--------------|
| DIAMETER | LENGTH | HEAD   | TYPE | LOCATOR CODE | PART NUMBER  |
| 3mm      | 6.4mm  | Button | 4    | AS-18        | N804152-S    |
| 5mm      | 20mm   | C/Sunk | 5    | AS-18-A      | W706520-S430 |

PH-156

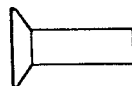
RIVET — TUBULAR



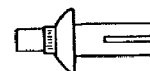
TYPE 1



TYPE 2



TYPE 3



TYPE 4

PH-156

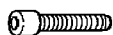
| DIAMETER | LENGTH | HEAD | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|------|------|--------------|-------------|
| 5/32"    | 5/16"  | Oval | 1    | SS-31-F      | 387002-S42  |

## Metric Coarse Thread

|     |      |        |   |          |              |
|-----|------|--------|---|----------|--------------|
| M12 | 32mm | Do Med | 1 | WG-100-A | W525053-S300 |
| M12 | 38mm | Do Med | 1 | WG-100-B | W525055-S300 |
| M6  | 6mm  | Flat   | 2 | AS-14    | E842137-S71  |

PH-159

SCREW — CAP — HEXAGON SOCKET



TYPE 1



TYPE 2



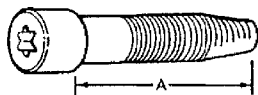
TYPE 3

PH-159

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| 3/8"     | 16     | 7/8"   | 1    | UU-13-EB     | 302217-S100 |

## Metric Coarse Thread

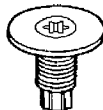
| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|--------|------|--------------|--------------|
| M6           | 20mm   | 1    | AU-23-C      | E804373-S    |
| M6           | 20mm   | 1    | AU-20        | N800055-S    |
| M4           | 8mm    | 2    | AU-23-H      | W702533-S409 |

**PH-162**
**SCREW — DRIVE**


PH-162

**Metric**

| DIAMETER | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|------|--------------|-------------|
| M6       | 16.9mm | 1    | AU-18-EE     | N811765-S2  |

**PH-792**
**SCREW — EXTERNAL DRIVE**

PH-792  
12/01/2003

**Metric**

| DIAMETER | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|------|--------------|--------------|
| M10      | 25.3mm | 1    | AU-173-E     | N805234-S101 |
| M10      | 25.3mm | 1    | AU-173-E     | N805234-S102 |

**PH-166**
**SCREW — HEXAGON SOCKET SET**


TYPE 1



TYPE 2



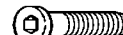
TYPE 3



TYPE 4



TYPE 5



TYPE 6

PH166

**National Fine Thread**

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|--------|------|--------------|--------------|
| No. 10   | 32     | 1/4"   | 3    | UU-33-Z      | 383870-S100Δ |

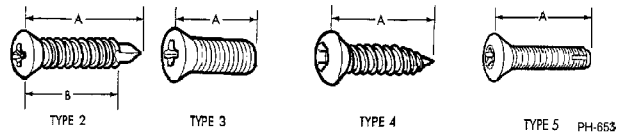
**Metric**

|    |    |       |   |          |              |
|----|----|-------|---|----------|--------------|
| M4 | 24 | 8.0mm | 1 | AU-16-HH | W705520-S430 |
| M6 | 24 | 19mm  | 6 | AU-28-AA | W702769-S300 |
| M6 | 32 | 25mm  | 6 | AU-28-AB | W702921-S430 |

Δ Has Nylon Insert

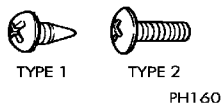
# Standard and Utility Parts Catalog

## PH-653      SCREW — OVAL HEAD — TRIM



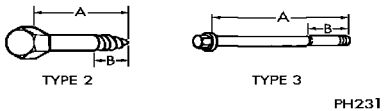
| Metric       |        |      |              |              |
|--------------|--------|------|--------------|--------------|
| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
| M4           | 29.1mm | 2    | AU-14-LL     | W707150-S300 |
| M4           | 44mm   | 2    | AU-14-KF     | N800944-S2   |
| M4.2         | 32mm   | 2    | AU-14-K      | N800943-S424 |
| M4           | 12mm   | 3    | AU-15-F      | N604133-S2   |
| M4.2         | 32mm   | 3    | AU-15-JA     | N808129-S424 |
| M4           | 14.5mm | 4    | AU-17-AB     | W704447-S303 |
| M4.2         | 25mm   | 4    | AU-17-AA     | N610021-S58  |
| M4.2         | 25mm   | 4    | AU-17-AA     | N610021-S61  |
| M4.2         | 25mm   | 4    | AU-17        | N803113-S2   |
| M4.2         | 32mm   | 4    | AU-17-D      | N610022-S58  |
| M4.8         | 16mm   | 4    | AU-17-AC     | W703440-S303 |
| M6           | 28mm   | 4    | AU-17-AZ     | W703945-S303 |
| M6           | 28mm   | 4    | AU-17-AX     | W703945-S424 |

## PH-160      SCREW — TRUSS HEAD — CROSS RECESSED — TAPPING



| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| No. 14   | 13     | .54    | 2    | UU-57-L      | 390633-S100 |

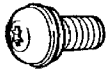
## PH-231      SCREW — SELF TAPPING — HEXAGON HEAD — SPECIAL



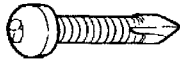
| DIAMETER | THREAD | A  | B    | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|----|------|------|--------------|-------------|
| No. 20   | 9      | 1" | 1/2" | 2    | UU-39-A      | 387482-S2   |

PH-762

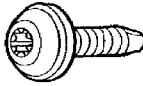
SCREW — SPECIAL



TYPE 1



TYPE 2



TYPE 3



TYPE 4



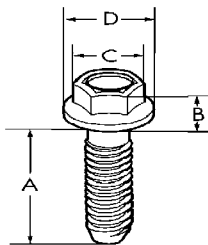
TYPE 5

PH-762  
12/19/2002

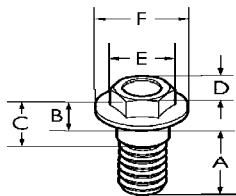
| NOMINAL SIZE | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|---------|------|--------------|---------------|
| M6           | 14.7mm  | 1    | AU-174-B     | N806038-S56   |
| M12          | 41.8mm  | 1    | AU-79-AE     | N811381-S408M |
| M5           | 17mm    | 3    | AU-179-W     | W701220-S900  |
| M6           | 18mm    | 3    | AU-175       | N807675-S101  |
| M8           | 37mm    | 3    | AU-175-E     | N807169-S100  |
| M8           | 37mm    | 3    | AU-175-G     | N807169-S900  |
| M8           | 37mm    | 3    | AU-175-H     | ★N807169-S102 |
| M8           | 37mm    | 3    | AU-175-G     | N807169-S105  |
| M10          | 25mm    | 3    | AU-175-D     | N807608-S100  |
| M10          | 25mm    | 3    | AU-175-D     | N807608-S306  |
| M4           | 20mm    | 4    | AU-178-AA    | W707549-S424  |
| M4           | 12.75mm | 5    | AU-180-A     | W707658-S424  |
| M4.2         | 20.3mm  | 5    | AU-180-B     | W701930-S424  |
| M4.2         | 33.27mm | 5    | AU-180-D     | W710033-S424  |
| M5           | 18.80mm | 5    | AU-180-E     | W707281-S403  |



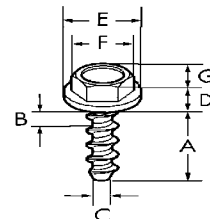
## PH-762(A) SCREW — SPECIAL



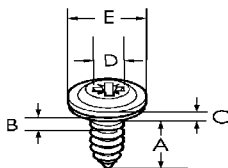
TYPE 1



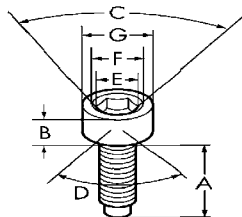
TYPE 2



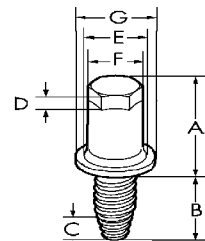
TYPE 3



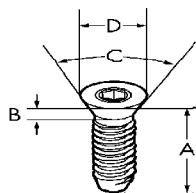
TYPE 4



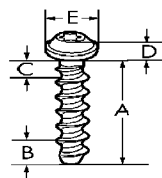
TYPE 5



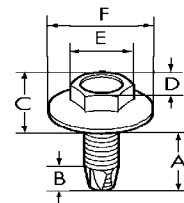
TYPE 6



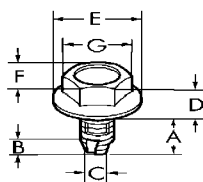
TYPE 7



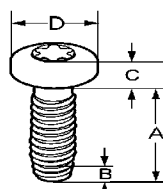
TYPE 8



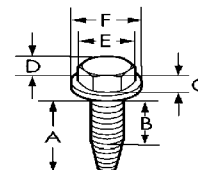
TYPE 9



TYPE 10



TYPE 11



TYPE 12

# Standard and Utility Parts Catalog

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## PH-762(A) SCREW — SPECIAL (cont'd)

| NOMINAL SIZE | A    | B     | C      | D      | E | F | G | TYPE | LOCATOR CODE | PART NUMBER                    |
|--------------|------|-------|--------|--------|---|---|---|------|--------------|--------------------------------|
| M4           | 8mm  | —     | 5.5mm  | 8.5mm  | — | — | — | 1    | WD-202       | W505130-S424<br>Thread rolling |
| M4           | 10mm | —     | 5.5mm  | 8.5mm  | — | — | — | 1    | WD-202-A     | W505131-S424<br>Thread rolling |
| M4           | 10mm | —     | 5.92mm | —      | — | — | — | 1    | WD-202-A     | ★ W505135-S424                 |
| M5           | 10mm | —     | 7.55mm | —      | — | — | — | 1    | WD-202-E     | W505140-S307                   |
| M5           | 10mm | —     | 7.55mm | —      | — | — | — | 1    | WD-202-E     | W505140-S309M                  |
| M5           | 16mm | —     | 7mm    | 11.4mm | — | — | — | 1    | WD-202-F     | W505144-S424<br>Thread rolling |
| M6           | 10mm | 6.8mm | 8mm    | 4.85mm | — | — | — | 1    | WD-201-C     | W505211-S301                   |
| M6           | 12mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203       | W505251-S437<br>Thread rolling |
| M6           | 12mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203       | W505251-S439<br>Thread rolling |
| M6           | 14mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-A     | W505252-S                      |
| M6           | 14mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-A     | W505252-S301                   |
| M6           | 14mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-A     | W505252-S424                   |
| M6           | 14mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-A     | W505252-S439<br>Thread rolling |
| M6           | 16mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-G     | W505253-S301<br>Thread rolling |
| M6           | 16mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-G     | W505253-S424<br>Thread rolling |
| M6           | 16mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-G     | W505253-S438<br>Thread rolling |
| M6           | 16mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-G     | W505253-S439<br>Thread rolling |
| M6           | 18mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-EA    | W505254-S307<br>Thread rolling |
| M6           | 18mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-EA    | W505254-S435<br>Thread rolling |
| M6           | 20mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-FC    | W505255-S301                   |
| M6           | 20mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-FB    | W505255-S424<br>Thread rolling |
| M6           | 20mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-FC    | W505255-S439<br>Thread rolling |
| M6           | 25mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-AA    | W505256-S424<br>Thread rolling |
| M6           | 25mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-AA    | W505256-S426<br>Thread rolling |
| M6           | 30mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-F     | W505257-S424<br>Thread rolling |
| 6.0mm        | 35mm | 6.8mm | 8mm    | 13.6mm | — | — | — | 1    | WD-203-FA    | W505258-S426<br>Thread rolling |
| M8           | 14mm | 8.5mm | 10mm   | 17.0mm | — | — | — | 1    | WD-203-GA    | W505260-S424<br>Thread rolling |
| M8           | 14mm | 8.5mm | 10mm   | 17.0mm | — | — | — | 1    | WD-203-GA    | W505260-S439                   |
| M8           | 16mm | 8.5mm | 10mm   | —      | — | — | — | 1    | WD-203-C     | W505223-S301                   |
| M8           | 16mm | 8.5mm | 10mm   | —      | — | — | — | 1    | WD-203-C     | W505223-S436                   |
| M8           | 16mm | 8.5mm | 10mm   | 17.0mm | — | — | — | 1    | WD-203-D     | W505261-S426<br>Thread rolling |
| M8           | 16mm | 8.5mm | 10mm   | 17.0mm | — | — | — | 1    | WD-203-DA    | W505261-S426<br>Thread rolling |
| M8           | 16mm | 8.5mm | 10mm   | 17.0mm | — | — | — | 1    | WD-203-DB    | W505261-S439<br>Thread rolling |
| M8           | 18mm | 8.5mm | 10mm   | 17.0mm | — | — | — | 1    | WD-203-M     | W505262-S424<br>Thread rolling |
| M8           | 20mm | 9.7mm | 13mm   | —      | — | — | — | 1    | WD-203-B     | W505263-S426<br>Thread rolling |
| M8           | 25mm | 8.5mm | 10mm   | 17.0mm | — | — | — | 1    | WD-203-E     | W505264-S424<br>Thread rolling |

(continued)

**PH-762(A) SCREW — SPECIAL (cont'd)**

| NOMINAL SIZE | A       | B      | C        | D      | E       | F      | G     | TYPE | LOCATOR CODE | PART NUMBER                        |
|--------------|---------|--------|----------|--------|---------|--------|-------|------|--------------|------------------------------------|
| M8           | 25mm    | 8.5mm  | 10mm     | 17.0mm | —       | —      | —     | 1    | WD-302-E     | W505264-S437<br>Thread rolling     |
| M8           | 25mm    | 8.5mm  | 10mm     | 17.0mm | —       | —      | —     | 1    | WD-203-E     | W505264-S439<br>Thread rolling     |
| M8           | 30mm    | 8.5mm  | 10mm     | 17.0mm | —       | —      | —     | 1    | WD-203-H     | W505265-S424<br>Thread rolling     |
| M8           | 35mm    | 8.5mm  | 10mm     | 17.0mm | —       | —      | —     | 1    | WD-203-L     | W505266-S439                       |
| M10          | 25mm    | 9.7mm  | 13mm     | 20.8mm | —       | —      | —     | 1    | WD-302-D     | W505274-S301<br>Thread rolling     |
| M10          | 25mm    | 9.7mm  | 13mm     | 20.8mm | —       | —      | —     | 1    | WD-302-D     | W505274-S424<br>Thread rolling     |
| M10          | 25mm    | 9.7mm  | 13mm     | 20.8mm | —       | —      | —     | 1    | WD-302-D     | W505274-S426<br>Thread rolling     |
| M10          | 25mm    | 9.7mm  | 13mm     | 20.8mm | —       | —      | —     | 1    | WD-302-D     | W505274-S439<br>Thread rolling     |
| M10          | 30mm    | 9.7mm  | 13mm     | 20.8mm | —       | —      | —     | 1    | WD-302-E     | W505275-S<br>Thread rolling        |
| M10          | 35mm    | 9.7mm  | 13mm     | 20.8mm | —       | —      | —     | 1    | WD-203-J     | W505276-S301<br>Thread rolling     |
| M12          | 9.7mm   | 13mm   | 20.8mm   | —      | —       | —      | —     | 1    | WD-203-M     | W505285-S424<br>Thread rolling     |
| M12          | 9.7mm   | 13mm   | 20.8mm   | —      | —       | —      | —     | 1    | WD-203-M     | W505285-S426<br>Thread rolling     |
| M12          | 35mm    | 11.9mm | 15mm     | —      | —       | —      | —     | 1    | WD-201-A     | W505246-S424                       |
| M12          | 40mm    | 11.9mm | 15mm     | 24.7mm | —       | —      | —     | 1    | WD-203-K     | W505286-S424<br>Thread rolling     |
| M6           | 12mm    | 4.1mm  | 6.6mm    | —      | 10.0mm  | 13.6mm | —     | 2    | WD-410-A     | E800341-S72                        |
| M6           | 12mm    | 4.1mm  | 6.6mm    | —      | 10.0mm  | 13.6mm | —     | 2    | WD-410-A     | E800341-S1309                      |
| M8           | 21mm    | 8.50mm | \$12.5mm | 10mm   | 10.95mm | 17mm   | —     | 2    | WD-203-C     | W708174-S900                       |
| 4.0mm        | 8.45mm  | 2.0mm  | —        | 3.92mm | 5.96mm  | 5.50mm | —     | 3    | WD-310-B     | W709655-S424<br>Locking serrations |
| M4           | 16mm    | 2.0mm  | —        | 3.62mm | 9.0mm   | 5.96mm | —     | 3    | WD-312-N     | W506824-S424<br>Collar head        |
| 4.2mm        | 14mm    | 5.7mm  | 2.7mm    | 3.6mm  | 10.0mm  | 7.59mm | 7.0mm | 3    | WD-310-A     | W505842-S424<br>Hex collar head    |
| 4.5mm        | 14mm    | 5.1mm  | 2.4mm    | 3.35mm | 9.00mm  | 5.96mm | 5.5mm | 3    | WD-310-B     | W505832-S424<br>Hex collar head    |
| 5.0mm        | 14mm    | 5.7mm  | 2.7mm    | 3.65mm | 10.0mm  | 7.59mm | 7.0mm | 3    | WD-310-A     | ★ W505842-S437<br>Hex collar head  |
| 6.0mm        | 20mm    | 6.8mm  | 3.2mm    | 4.35mm | 12.00mm | 8.71mm | 8.0mm | 3    | WD-310-C     | W505855-S307<br>Hex collar head    |
| 4.0mm        | 10mm    | 4.6mm  | 2.72mm   | —      | 8.00mm  | —      | —     | 4    | WD-311-R     | W505942-S61<br>Pan collar head     |
| 4.0mm        | 12mm    | 4.6mm  | 2.72mm   | —      | 8.00mm  | —      | —     | 4    | WD-311-S     | W505943-S424<br>Pan collar head    |
| 4mm          | 15mm    | 4.0mm  | 1.3mm    | 4.95mm | 9.70mm  | —      | —     | 4    | WD-311-A     | W707496-S435<br>Pan collar head    |
| 4mm          | 15mm    | 4.0mm  | 1.3mm    | 4.95mm | 9.70mm  | —      | —     | 4    | WD-311-A     | W707496-S900<br>Pan collar head    |
| 4mm          | 16.90mm | 3.0mm  | 1.45mm   | —      | 10.70mm | —      | —     | 4    | WD-311-C     | W708392-S424<br>Pan collar head    |
| 4mm          | 16.90mm | 3.0mm  | 1.45mm   | —      | 10.70mm | —      | —     | 4    | WD-311-B     | W708412-S424<br>Pan collar head    |
| 4mm          | 16.90mm | 3.0mm  | 1.45mm   | —      | 10.70mm | —      | —     | 4    | WD-311-B     | W708412-S900<br>Pan collar head    |
| M4           | 18.55mm | —      | —        | —      | 7.82mm  | —      | —     | 4    | WD-333-A     | W709379-S437<br>Pan collar head    |
| 5.0mm        | 20mm    | 5.7mm  | 3.45mm   | —      | 10.0mm  | —      | —     | 4    | WD-311-T     | W505965-S309<br>Pan collar head    |
| 6.0mm        | 25mm    | 6.8mm  | 3.75mm   | —      | 12.00mm | —      | —     | 4    | WD-311-U     | W505976-S303<br>Pan collar head    |

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## PH-762(A) SCREW — SPECIAL (cont'd)

| NOMINAL SIZE | A       | B      | C      | D      | E       | F       | G      | TYPE | LOCATOR CODE | PART NUMBER                       |
|--------------|---------|--------|--------|--------|---------|---------|--------|------|--------------|-----------------------------------|
| 6.0mm        | 35mm    | 6.8mm  | 3.75mm | —      | 12.00mm | —       | —      | 4    | WD-311-V     | W505978-S437<br>Pan collar head   |
| M8           | 28mm    | 9.85mm | 120deg | 120deg | 8mm     | 10.8mm  | 14.8mm | 5    | WD-315-A     | W708582-S300<br>Hex socket head   |
| M8           | 24.3mm  | 18.0mm | 6.88mm | 5.5mm  | 11.5mm  | 10.00mm | 16.5mm | 6    | WD-400-A     | ★ W708949-S435                    |
| M4           | 20.42mm | 2.7mm  | 92deg  | 8.4mm  | —       | —       | —      | 7    | WB-410-G     | W710248-S900<br>Counter sunk      |
| 4.2          | 25.79mm | 2.7mm  | 90deg  | 9.4mm  | —       | —       | —      | 7    | WB-410-C     | W710036-S424<br>Counter sunk      |
| 5.0          | 16mm    | 2      | 5.7mm  | 3.45mm | 10.0mm  | —       | —      | 7    | WD-311-D     | W505964-S309U<br>Pan collar head  |
| 5.0          | 16mm    | 2      | 5.7mm  | 3.45mm | 10.0mm  | —       | —      | 7    | WD-311-D     | ★ W505964-S424<br>Pan collar head |
| M6           | 16mm    | 3.3mm  | 90deg  | 11.3mm | —       | —       | —      | 7    | WB-306-M     | W505783-S309<br>Counter sunk      |
| M8           | 20mm    | 4.65mm | 90deg  | 15.8mm | —       | —       | —      | 7    | WD-410-D     | W505742-S301                      |
| M8           | 20mm    | 4.65mm | 90deg  | 15.8mm | —       | —       | —      | 7    | WD-410-D     | ★ W505742-S438<br>Counter sunk    |
| M8           | 25mm    | 4.65mm | 90deg  | 15.8mm | —       | —       | —      | 7    | WD-410-A     | ★ W505743-S309<br>Counter sunk    |
| M13          | 31.0mm  | 4.65mm | 90deg  | 15.8mm | —       | —       | —      | 7    | WD-311-H     | W703601-S437                      |
| 4.0          | 12mm    | 1.5mm  | 2.0mm  | 3.25mm | 9.00mm  | —       | —      | 8    | WD-313-L     | W506943-S424<br>Pan collar head   |
| 4.0          | 14mm    | 2      | 4.6mm  | 2.72mm | 8.00mm  | —       | —      | 8    | WD-311-M     | W505944-S424<br>Pan collar head   |
| 4.0          | 25mm    | 2      | 4.6mm  | 2.72mm | 8.00mm  | —       | —      | 8    | WD-311-E     | ★ W505947-S437<br>Pan collar head |
| M4.8         | 16mm    | —      | 1.53mm | 4.44mm | 13.0mm  | —       | —      | 8    | WD-311-MA    | N808241-S101                      |
| 5.0          | 10.5mm  | 2.24mm | —      | 2.9mm  | 12.0mm  | —       | —      | 8    | WD-313-R     | W710937-S303<br>Pan collar head   |
| 5.0          | 12mm    | 1.5mm  | 2.5mm  | 3.65mm | 11.00mm | —       | —      | 8    | WD-313-U     | W506962-S437<br>Pan collar head   |
| 5.0          | 16mm    | 2      | 5.7mm  | 3.45mm | 10.0mm  | —       | —      | 8    | WD-311-D     | W505964-S437<br>Pan collar head   |
| 5.0          | 35mm    | 1      | 5.7mm  | 3.45mm | 10.0mm  | —       | —      | 8    | WD-311-R     | W505968-S424<br>Pan collar head   |
| 6.0          | 16mm    | 2      | 1.3mm  | 3.75mm | 12.0mm  | —       | —      | 8    | WD-311-K     | W505974-S309U<br>Pan collar head  |
| 6.0          | 16mm    | 2      | 1.3mm  | 3.75mm | 12.0mm  | —       | —      | 8    | WD-311-K     | W505974-S437<br>Pan collar head   |
| 6.0          | 30mm    | 2      | 1.3mm  | 3.75mm | 12.0mm  | —       | —      | 8    | WD-311-F     | W505977-S437<br>Pan collar head   |
| 3.5          | 8mm     | 2      | 3.5mm  | 2.52mm | 7.00mm  | —       | —      | 9    | WD-311-G     | W505930-S424<br>Pan collar head   |
| M6           | 22mm    | 7.0mm  | 7.9mm  | 8.66mm | 8.00mm  | 18.00mm | —      | 9    | WD-320-A     | W703242-S301<br>Hex head          |
| M6           | 22mm    | 7.0mm  | 7.9mm  | 8.66mm | 8.00mm  | 18.00mm | —      | 9    | WD-320-A     | W703242-S306<br>Hex head          |
| M6           | 22mm    | 7.0mm  | 7.9mm  | 8.66mm | 8.00mm  | 18.00mm | —      | 9    | WD-320-A     | W703242-S309<br>Hex head          |
| M6           | 22mm    | 7.0mm  | 7.9mm  | 8.66mm | 8.00mm  | 18.00mm | —      | 9    | WD-320-A     | W703242-S440M<br>Hex head         |
| M6           | 14mm    | 6.5mm  | 12dia  | 4.2mm  | 15mm    | 9.00mm  | —      | 10   | WD-325-A     | W704873-S309M<br>Serrate point    |
| M6           | 14mm    | 6.5mm  | 12dia  | 4.2mm  | 15mm    | 9.00mm  | —      | 10   | WD-325-A     | W704873-S415<br>Serrate point     |
| M6           | 14mm    | 6.5mm  | 12dia  | 4.2mm  | 15mm    | 9.00mm  | —      | 10   | WD-325-A     | W704873-S439<br>Serrate point     |
| M6           | 16mm    | 5mm    | 4.5mm  | 7.2mm  | 18mm    | 10mm    | 10.8mm | 10   | WD-330-A     | W707717-S301<br>Serrate point     |

\$ Nylon Coated

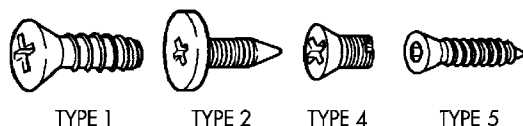
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# Standard and Utility Parts Catalog

## PH-762(A) SCREW — SPECIAL (cont'd)

| NOMINAL SIZE | A       | B      | C      | D       | E       | F       | G      | TYPE | LOCATOR CODE | PART NUMBER                     |
|--------------|---------|--------|--------|---------|---------|---------|--------|------|--------------|---------------------------------|
| M8           | 23mm    | 14mm   | —      | 8.5mm   | 15.80mm | 14.55mm | —      | 10   | WD-330-D     | W704911-S426<br>Serrated        |
| M8           | 23mm    | 14mm   | —      | 8.5mm   | 15.80mm | 14.55mm | —      | 10   | WD-330-D     | W704911-S439<br>Serrated        |
| M8           | 28mm    | 9mm    | —      | 8.4mm   | 15.80mm | —       | 10.8mm | 10   | WD-330-B     | ★N811891-S60<br>Serrate point   |
| 4.0mm        | 8mm     | —      | 3.1mm  | 8.0mm   | —       | —       | —      | 11   | WD-250-A     | W504682-S309<br>Thread rolling  |
| M5           | 10mm    | —      | 3.7mm  | 9.5mm   | —       | —       | —      | 11   | WD-250-F     | W504693-S309U<br>Thread rolling |
| M5           | 12mm    | —      | 3.7mm  | 9.14mm  | —       | —       | —      | 11   | WD-250-G     | W504694-S424<br>Thread rolling  |
| M6           | 10mm    | —      | 4.6mm  | 12mm    | —       | —       | —      | 11   | WD-251-A     | W504750-S309U<br>Thread rolling |
| M6           | 20mm    | —      | 4.6mm  | 12mm    | —       | —       | —      | 11   | WD-251-F     | W504755-S309U<br>Thread rolling |
| M8           | 14mm    | —      | 6.0mm  | 16mm    | —       | —       | —      | 11   | WD-251-G     | W504760-S309U<br>Thread rolling |
| M8           | 14mm    | —      | 6.0mm  | 16mm    | —       | —       | —      | 11   | WD-251-G     | W504760-S424<br>Thread rolling  |
| M8           | 18mm    | —      | 6.0mm  | 16mm    | —       | —       | —      | 11   | WD-251-H     | W504762-S439<br>Thread rolling  |
| M8           | 25mm    | —      | 6.0mm  | 16mm    | —       | —       | —      | 11   | WD-251-M     | W504764-S309U<br>Thread rolling |
| M8           | 35mm    | —      | 6.0mm  | 16mm    | —       | —       | —      | 11   | WD-251-J     | W504766-S424<br>Thread rolling  |
| M10          | 30mm    | 5mm    | 7.5mm  | 20mm    | —       | —       | —      | 11   | WD-251-AA    | Thread rolling                  |
| M10          | 30mm    | 5mm    | 7.5mm  | 20mm    | —       | —       | —      | 11   | WD-251-AA    | W504775-S49M<br>Thread rolling  |
| M10          | 35mm    | —      | 7.5mm  | 20mm    | —       | —       | —      | 11   | WD-251-T     | W504776-S409M<br>Thread rolling |
| M12          | 24.0mm  | 3.3mm  | 8.4mm  | 24.0mm  | —       | —       | —      | 11   | WD-260-A     | W709826-S900<br>Thread rolling  |
| M5           | 16.5mm  | 8.8mm  | 3.8mm  | 8mm     | 8.6mm   | 12mm    | —      | 12   | WD-410       | W705981-S303                    |
| M5           | 16.5mm  | 8.8mm  | 3.8mm  | 8mm     | 8.6mm   | 12mm    | —      | 12   | WD-410       | W705981-S424                    |
| M6           | 20.8mm  | —      | 6.15mm | 8mm     | —       | 12.17mm | —      | 12   | WD-410-M     | N808066-S36                     |
| M8           | 44.25mm | 33.9mm | 9.7mm  | 13.00mm | 14.06mm | 22.05mm | —      | 12   | WD-420       | N811560-S36                     |

PH-173

**SCREW — SELF TAPPING — FLAT HEAD — CROSS RECESSED**


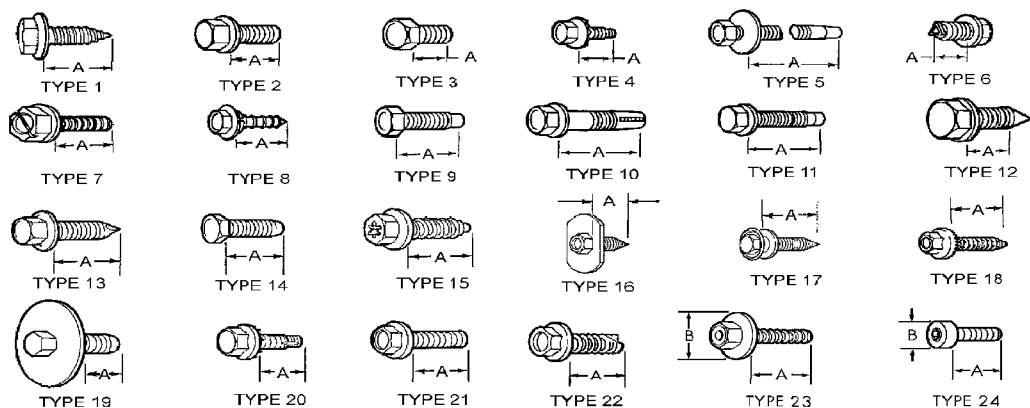
PH173

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| 5/16"    | 18     | 3/4"   | 1    | UU-48-E      | ★378428-S8  |

Metric

| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|--------|------|--------------|--------------|
| M4           | 10.2mm | 1    | AU-24-F      | W706580-S424 |
| M8           | 16mm   | 2    | AU-25-D      | N802119-S61  |
| M4.3         | 16mm   | 5    | AU-27-A      | N808012-S36  |

PH-169

**SCREW — SELF TAPPING — HEXAGON HEAD**

PH-169  
12/22/2000

| DIAMETER | THREAD | A      | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| No. 8    | 16     | 3/8"   | 1    | UU-52-AZ     | 389553-S2   |
| No. 8    | 32     | 1/4"   | 2    | UU-51-CY     | W505222-S58 |
| 5/16"    | 18     | 1-1/2" | 5    | UU-52-AY     | ★389723-S2  |
| 5/16"    | 18     | 3/4"   | 11   | UU-52-AF     | 381877-S2   |
| 5/16"    | 18     | 1"     | 11   | UU-52-AM     | 384871-S2   |
| 5/16"    | 18     | 1-1/8" | 11   | UU-52-AL     | 382623-S2   |
| No. 10   | 19     | 1"     | 13   | UU-51-K      | 390092-S58  |
| No. 10   | 16     | 3/4"   | 17   | UU-182-E     | 391127-S39  |

Metric

| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|--------|------|--------------|---------------|
| M4           | 10mm   | 1    | AU-31-E      | N603077-S36   |
| M4.2         | 14.5mm | 1    | AU-31-DN     | N803818-S435  |
| M4.2         | 16mm   | 1    | AU-31-C      | N610938-S2    |
| M4.2         | 16mm   | 1    | AU-31-CA     | N610938-S301  |
| M4.2         | 16mm   | 1    | AU-31-CB     | N610938-S426  |
| M4.2         | 16mm   | 1    | AU-48-FF     | N800322-SA    |
| M4.2         | 16mm   | 1    | AU-48-F      | N800322-S36X  |
| M4.2         | 17.7mm | 1    | AU-9-G       | N807605-S412  |
| M4.2         | 20.8mm | 1    | AU-29        | W710506-S424  |
| M4.2         | 25mm   | 1    | AU-31-DD     | N610941-S58   |
| M4.2         | 25mm   | 1    | AU-31-DL     | N800481-S435  |
| M4.8         | 13.0mm | 1    | AU-31-DF     | N801846-S36MG |
| M4.8         | 16mm   | 1    | AU-31-DJ     | N803866-S36M  |
| M4.8         | 19mm   | 1    | AU-31-DK     | N804237-S2    |

(continued)

| Standard and Utility Parts Catalog |         |      |              |               |
|------------------------------------|---------|------|--------------|---------------|
| Metric (Cont'd)                    |         |      |              |               |
| NOMINAL SIZE                       | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER   |
| M5.3                               | 22mm    | 1    | AU-31-DM     | W704310-S309  |
| M5.3                               | 22mm    | 1    | AU-31-DP     | W704310-S301  |
| M5.3                               | 22mm    | 1    | AU-31-DR     | W704310-S900  |
| M5.3                               | 32mm    | 1    | AU-31-DY     | W704308-S1303 |
| M6                                 | 20mm    | 1    | AU-31-DX     | N811810-S301  |
| M6                                 | 20mm    | 1    | AU-31-DX     | N811810-S424  |
| M6                                 | 67.30mm | 1    | AU-4-TR      | N802867-S2    |
| M6.3                               | 10mm    | 1    | AU-4-TS      | N610956-S2    |
| M6.3                               | 10mm    | 1    | AU-4-TS      | N610956-S426  |
| M6.3                               | 12mm    | 1    | AU-4-K       | N803991-S36   |
| M6.3                               | 13mm    | 1    | AU-4-TT      | N610957-S36   |
| M6.3                               | 13mm    | 1    | AU-4-TU      | N610957-S56   |
| M6.3                               | 13mm    | 1    | AU-4-TU      | N610957-S301  |
| M6.3                               | 16mm    | 1    | AU-4-U       | E810011-S74   |
| M6.3                               | 16mm    | 1    | AU-4-A       | N800312-S301  |
| M6.3                               | 16mm    | 1    | AU-4-A       | N800312-S437  |
| M6.3                               | 16mm    | 1    | AU-4-V       | W702704-S309  |
| M6.3                               | 19mm    | 1    | AU-3-Z       | N811427-S428  |
| M6.3                               | 19mm    | 1    | AU-3-R       | N610959-S56   |
| M6.3                               | 22mm    | 1    | AU-3-WA      | ★W708263-S301 |
| M6.3                               | 23mm    | 1    | AU-4-WA      | N610960-S426  |
| M6.3                               | 25mm    | 1    | AU-3-TE      | W701107-S303  |
| M6.3                               | 25mm    | 1    | AU-3-TE      | W701107-S307  |
| M6.3                               | 32mm    | 1    | AU-3-TA      | N610962-S190  |
| M6.3                               | 32mm    | 1    | AU-3-TC      | N804051-S190  |
| M8                                 | 18mm    | 1    | AU-3-U       | ★N802191-S2   |
| M8                                 | 18mm    | 1    | AU-3-U       | N802191-S438  |
| M8                                 | 18mm    | 1    | AU-3-W       | N802212-S2    |
| M8                                 | 28mm    | 1    | AU-3-Y       | N802455-S2    |
| M10                                | 27mm    | 1    | AU-32-F      | N806081-S56   |
| M4.8                               | 1.59mm  | 2    | AU-9-U       | N803680-S100  |
| M4.8                               | 19mm    | 2    | AU-9-LA      | N807522-S36   |
| M5                                 | 16mm    | 2    | AU-10-A      | N602719-S2    |
| M6                                 | 14mm    | 2    | AU-9-AD      | W500012-S301  |
| M6                                 | 14mm    | 2    | AU-9-AE      | W500012-S309  |
| M6                                 | 14mm    | 2    | AU-9-ADD     | W500012-S424  |
| M6                                 | 16mm    | 2    | AU-9-P       | N802493-S2    |
| M6                                 | 20mm    | 2    | AU-9-R       | N800765-S36   |
| M6                                 | 45mm    | 2    | AU-10-G      | E800154-SMR   |
| M6.3                               | 10mm    | 2    | AU-4-S       | N611056-S2    |
| M6.3                               | 13mm    | 2    | AU-9-L       | N611057-S36   |
| M6.3                               | 13mm    | 2    | AU-9-L       | N611057-S307  |
| M6.3                               | 16mm    | 2    | AU-9-N       | N611058-S2    |
| M6.3                               | 32mm    | 2    | AU-9-NA      | N611062-S2    |
| M7                                 | 25.4mm  | 2    | AU-9-NK      | N805881-S36M  |
| M8                                 | 12mm    | 2    | AU-9-AF      | W700414-S309  |
| M8                                 | 18mm    | 2    | AU-9-AB      | N802096-S309  |
| M8                                 | 18mm    | 2    | AU-9-AEE     | W705739-S301  |
| M8                                 | 22mm    | 2    | AU-9-NL      | N811013-S60   |
| M8                                 | 22mm    | 2    | AU-9-Z       | W701759-S437  |
| M8                                 | 25mm    | 2    | AU-9-V       | N801689-S     |
| M10                                | 22mm    | 2    | AU-9-Y       | N802653-S101  |
| M10                                | 23mm    | 2    | AU-9-AC      | W702108-S309  |
| M10                                | 41.3mm  | 2    | AU-9-XE      | W708473-S900  |
| M12                                | 35mm    | 2    | AU-9-AD      | W702256-S301  |
| M10                                | 25mm    | 4    | AU-33-F      | N801179-S2    |
| M6                                 | 19mm    | 5    | AU-40-DA     | E805090-S201  |
| M6                                 | 27.5mm  | 5    | AU-40-AA     | N800947-S61   |
| M6                                 | 27.5mm  | 5    | AU-40-H      | N805605-S36   |
| M8                                 | 30mm    | 5    | AU-40-J      | N606690-S426  |
| M6                                 | 13mm    | 6    | AU-49-B      | N800771-S2    |
| M6.6                               | 16mm    | 6    | AU-49-D      | ★N803006-S36M |

(continued)

# Standard and Utility Parts Catalog

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SCREW — SELF TAPPING — HEXAGON HEAD (Cont'd)

| Metric (Cont'd) |         |      |              |                |
|-----------------|---------|------|--------------|----------------|
| NOMINAL SIZE    | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER    |
| M3.5            | 12.7mm  | 7    | AU-48-ED     | N804987-S36    |
| M4.2            | 13mm    | 7    | AU-31-HA     | N800705-S2     |
| M4.2            | 19mm    | 7    | AU-31-HB     | N800708-S2     |
| M6              | 10mm    | 7    | AU-50-C      | N611171-S2     |
| M6              | 20mm    | 7    | AU-50-A      | N611175-S2     |
| M6              | 25mm    | 7    | AU-50-DA     | N611176-S56    |
| M6              | 25mm    | 7    | AU-50-DA     | N611176-S424   |
| M8              | 12mm    | 7    | AU-50-FG     | N611192-S2     |
| M4.2            | 25.00mm | 8    | AU-50-HA     | N807729-S36    |
| M4.2            | 30mm    | 8    | AU-50-HD     | W707866-S424   |
| M5              | 21mm    | 8    | AU-50-HF     | W704650-S421   |
| M4.2            | 30mm    | 8    | AU-50-HD     | W707866-S424   |
| M6.3            | 16mm    | 8    | AU-4-VV      | W611101-S2     |
| M6.3            | 16mm    | 8    | AU-4-VV      | W611101-S436   |
| M6.3            | 19mm    | 8    | AU-50-J      | ★ W611102-S    |
| M6.3            | 19mm    | 8    | AU-50-JA     | W611102-S2     |
| M6.3            | 19mm    | 8    | AU-50-JA     | ★ W611102-S301 |
| M6.6            | 18.5mm  | 8    | AU-50-AM     | N803006-S301   |
| M8mm            | 28mm    | 8    | AU-9-BC      | N811273-S436   |
| M8              | 14mm    | 10   | AU-54        | N611193-S301   |
| M8              | 20mm    | 10   | AU-54-B      | N611195-S2     |
| M8              | 20mm    | 10   | AU-54-B      | N611195-S56    |
| M4.2            | 25mm    | 11   | AU-50-GA     | ★ N611041-S2   |
| M4.2            | 25mm    | 11   | AU-50-GP     | ★ N611041-S36  |
| M4.2            | 32mm    | 11   | AU-52-S      | N807127-S411   |
| M5              | 11mm    | 11   | AU-50-AQ     | W700977-S309   |
| M5              | 20mm    | 11   | AU-52-T      | W611645-S424   |
| M6              | 8mm     | 11   | AU-50-GT     | W611620-S2     |
| M6              | 17mm    | 11   | AU-50-HD     | N807069-S100   |
| M6              | 18.5mm  | 11   | AU-50-AQ     | W701572-S309   |
| M6              | 18.5mm  | 11   | AU-50-AQ     | W701572-S437   |
| M6              | 25mm    | 11   | AU-52-M      | N807912-S301   |
| M6              | 28mm    | 11   | AU-50-AT     | W706918-S301   |
| M6              | 30mm    | 11   | AU-50-GM     | W611627-S2     |
| M6              | 42mm    | 11   | AU-50-AW     | W705782-S309   |
| M8              | 14mm    | 11   | AU-50-GH     | W611633-S2     |
| M8              | 14mm    | 11   | AU-50-GH     | W611633-S56    |
| M8              | 14mm    | 11   | AU-50-GH     | W611633-S60    |
| M8              | 14mm    | 11   | AU-50-GH     | W611633-S426   |
| M8              | 17mm    | 11   | AU-50-GZ     | N806358-S      |
| M8              | 20mm    | 11   | AU-50-AW     | W703724-S309   |
| M8              | 25mm    | 11   | AU-52-R      | N807524-S58    |
| M8              | 28mm    | 11   | AU-52-N      | N606689-S55    |
| M8              | 30mm    | 11   | AU-50-GL     | N801357-S2     |
| M8              | 35mm    | 11   | AU-50-AZ     | N806855-S58    |
| M8              | 80mm    | 11   | AU-52-J      | N808496-S309   |
| M8              | 80mm    | 11   | AU-52-J      | N808496-S437   |
| M8              | 200mm   | 11   | AU-50-AY     | N802188-S424   |
| M10             | 30mm    | 11   | AU-52-A      | ★ W611647-S2   |
| M10             | 40mm    | 11   | AU-50-GU     | N803463-S2     |
| M10             | 50.85mm | 11   | AU-52-G      | N804850-S2     |
| M12             | 35mm    | 11   | AU-93-QW     | W706637-S424   |
| M14             | 65mm    | 11   | AU-52-K      | W701865-S426   |
| M4.2            | 17mm    | 12   | AU-84-G      | N802826-S301   |
| M4.2            | 17mm    | 12   | AU-84-G      | N802826-S439   |
| M6.3mm          | 16mm    | 12   | AU-56        | N800369-S36    |
| M6.5            | 19mm    | 12   | AU-84        | E812111-S71    |
| M10             | 27mm    | 12   | AU-32-P      | N806081-S60    |
| M12             | 69.2mm  | 12   | AU-84-F      | N808851-S60    |
| M4.2            | 16mm    | 13   | AU-56-DE     | N800322-S424   |
| M6.3            | 16mm    | 13   | AU-56-D      | N610958-S2     |

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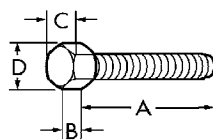
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|-----------------|---------|------|--------------|----------------|--|--|--|--|--|
| 240             |         |      |              |                | Standard and Utility Parts Catalog           |  |  |  |  |
| PH-169          |         |      |              |                | SCREW — SELF TAPPING — HEXAGON HEAD (Cont'd) |  |  |  |  |
| Metric (Cont'd) |         |      |              |                |  |  |  |  |  |
| NOMINAL SIZE    | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER    |  |  |  |  |  |
| M6.3            | 16mm    | 13   | AU-56-DA     | N610958-S60    |  |  |  |  |  |
| M6.3mm          | 16mm    | 13   | AU-56-DZ     | N807393-S435   |  |  |  |  |  |
| M8              | 18mm    | 13   | AU-9-BB      | N802212-S426   |  |  |  |  |  |
| M8              | 30mm    | 13   | AU-56-A      | ★ N802919-S2   |  |  |  |  |  |
| M12             | 67.5mm  | 13   | AU-56-J      | ★ N806733-S56  |  |  |  |  |  |
| M8              | 20mm    | 14   | AU-57-K      | E602352-S72    |  |  |  |  |  |
| M8              | 40mm    | 14   | AU-57-H      | E602356-S72    |  |  |  |  |  |
| M12             | 35mm    | 14   | AU-57-Q      | ★ W500643-S426 |  |  |  |  |  |
| M12             | 35mm    | 14   | AU-57-Q      | W500643-S436   |  |  |  |  |  |
| M12             | 35mm    | 14   | AU-57-Q      | W500643-S437   |  |  |  |  |  |
| M12             | 35mm    | 14   | AU-57-Q      | W500643-S437M  |  |  |  |  |  |
| M3.5            | 19mm    | 15   | AU-89-J      | N804988-S36    |  |  |  |  |  |
| M3.5            | 19.8mm  | 15   | AU-88-A      | N804988-S2     |  |  |  |  |  |
| M3.5            | 22mm    | 15   | AU-88-AC     | N805589-S36B   |  |  |  |  |  |
| M4.2            | 13mm    | 15   | AU-89-K      | W700915-S404   |  |  |  |  |  |
| M4.2            | 16mm    | 15   | AU-88-B      | N804306-S58    |  |  |  |  |  |
| M4.2            | 19mm    | 15   | AU-88-C      | N803876-S36B   |  |  |  |  |  |
| M4.2            | 19mm    | 15   | AU-88-S      | N803876-S411   |  |  |  |  |  |
| M4.2            | 19mm    | 15   | 080-030      | N806555-S424   |  |  |  |  |  |
| M4.2            | 25mm    | 15   | AU-88-E      | ★ N803877-S36B |  |  |  |  |  |
| M4.2            | 25mm    | 15   | AU-88-E      | N803877-S424   |  |  |  |  |  |
| M4.8            | 16mm    | 15   | AU-88-R      | N803875-S2     |  |  |  |  |  |
| M8              | 25.63mm | 15   | AU-89-M      | N805114-S2     |  |  |  |  |  |
| M4.8            | 19mm    | 16   | AU-89-N      | W701799-S58    |  |  |  |  |  |
| M6              | 36.3mm  | 17   | AU-89-H      | N803882-S2     |  |  |  |  |  |
| M4.2            | 19mm    | 18   | AU-93-AB     | W705314-S424   |  |  |  |  |  |
| 4.8             | 13mm    | 18   | AU-93-AC     | W504062-S309   |  |  |  |  |  |
| 4.8             | 13mm    | 18   | AU-93-AC     | ★ W504062-S424 |  |  |  |  |  |
| M8              | 1.25mm  | 18   | AU-93-AA     | N802212-S426   |  |  |  |  |  |
| M4.2            | 13mm    | 19   | AU-93-P      | N802141-S310   |  |  |  |  |  |
| M4.2            | 13mm    | 19   | AU-93-C      | N802141-S411   |  |  |  |  |  |
| M4.2            | 17mm    | 19   | AU-93-BC     | N807605-S426   |  |  |  |  |  |
| M4.2            | 19mm    | 19   | AU-93-AD     | N808650-S55    |  |  |  |  |  |
| M4.2            | 40mm    | 19   | AU-93-BB     | W706505-S435   |  |  |  |  |  |
| M5.9            | 25mm    | 19   | AU-57-H      | W702706-S303   |  |  |  |  |  |
| M6              | 16mm    | 19   | AU-50-HE     | N807111-S100   |  |  |  |  |  |
| M6              | 18.5mm  | 19   | AU-93-BD     | N606675-S36    |  |  |  |  |  |
| M6              | 20mm    | 19   | AU-93-BG     | N800394-S      |  |  |  |  |  |
| M6              | 20mm    | 19   | AU-93-BH     | N800394-S301   |  |  |  |  |  |
| M6              | 20mm    | 19   | AU-93-BE     | N800394-S435   |  |  |  |  |  |
| M6              | 20.3mm  | 19   | AU-93-RB     | W705583-S436   |  |  |  |  |  |
| M6              | 20.5mm  | 19   | AU-93-BF     | W708029-S301   |  |  |  |  |  |
| M6              | 51.5mm  | 19   | AU-93-A      | N807418-S2     |  |  |  |  |  |
| M6.3            | 16mm    | 19   | AU-93-V      | W700675-S309   |  |  |  |  |  |
| M8              | 15.40mm | 19   | AU-93-M      | ★ N808324-S424 |  |  |  |  |  |
| M8              | 19.05mm | 19   | AU-93-H      | ★ 387514-S     |  |  |  |  |  |
| M8              | 19.05mm | 19   | AU-93-H      | 387514-S61     |  |  |  |  |  |
| M8              | 23mm    | 19   | AU-93-L      | ★ N807970-S60  |  |  |  |  |  |
| M8              | 38mm    | 19   | AU-93-J      | N606691-S101   |  |  |  |  |  |
| M10             | 35mm    | 19   | AU-93-U      | W702618-S309   |  |  |  |  |  |
| M6              | 14mm    | 20   | AU-95-D      | N806327-S190   |  |  |  |  |  |
| M6              | 14mm    | 20   | AU-95-E      | W701082-S301   |  |  |  |  |  |
| M6              | 14mm    | 20   | AU-95-E      | W701082-S437M  |  |  |  |  |  |
| M6              | 14mm    | 20   | AU-95-E      | W701082-S900   |  |  |  |  |  |
| M6              | 18.8mm  | 20   | AU-95-C      | W709434-S437   |  |  |  |  |  |
| M6              | 31.0mm  | 20   | AU-95-B      | W706644-S438   |  |  |  |  |  |
| M8              | 23.5mm  | 20   | AU-3-WV      | N808898-S36MG  |  |  |  |  |  |
| M4              | 10mm    | 21   | AU-93-X      | N602708-S100   |  |  |  |  |  |
| M5              | 10mm    | 21   | AU-93-YA     | W500001-S426   |  |  |  |  |  |
| M5              | 12mm    | 21   | AU-93-ZC     | W500002-S301   |  |  |  |  |  |
| M5              | 20mm    | 21   | AU-93-ZB     | W500005-S309   |  |  |  |  |  |
| M6              | 10mm    | 21   | AU-93-ZA     | W500010-S426   |  |  |  |  |  |
| (continued)     |         |      |              |                |  |  |  |  |  |

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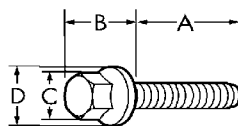
SCREW — SELF TAPPING — HEXAGON HEAD (Cont'd)

| Metric (Cont'd) |        |      |              |                |
|-----------------|--------|------|--------------|----------------|
| NOMINAL SIZE    | LENGTH | TYPE | LOCATOR CODE | PART NUMBER    |
| M6              | 10mm   | 21   | AU-93-ZA     | W500010-S439   |
| M6              | 10mm   | 21   | AU-93-ZC     | W703483-S426   |
| M6              | 13.3mm | 21   | AU-95-G      | W700681-S304   |
| M6              | 14mm   | 21   | AU-95-GE     | W500212-S301   |
| M6              | 14mm   | 21   | AU-95-GB     | W500212-S426   |
| M6              | 14mm   | 21   | AU-95-GF     | W500212-S427   |
| M6              | 14mm   | 21   | AU-95-GG     | W500212-S435   |
| M6              | 14mm   | 21   | AU-95-GH     | ★ W500212-S437 |
| M6              | 14mm   | 21   | AU-95-GD     | W500212-S1303  |
| M6              | 14mm   | 21   | AU-95-GC     | W500212-S3091  |
| M6              | 19mm   | 21   | AU-93-D      | N802229-S56    |
| M6              | 20mm   | 21   | AU-93-DA     | W500014-S309   |
| M6              | 24mm   | 21   | AU-93-ZE     | W703277-S306   |
| M6              | 24mm   | 21   | AU-93-ZE     | W703277-S436   |
| M6              | 42mm   | 21   | AU-94-A      | W706040-S300   |
| M6              | 44mm   | 21   | AU-3-PP      | N811177-S2     |
| M6              | 72mm   | 21   | AU-94-B      | W706042-S300   |
| M8              | 14mm   | 21   | AU-93-WA     | W500021-S426   |
| M8              | 20mm   | 21   | AU-93-WE     | W500023-S309   |
| M8              | 20mm   | 21   | AU-93-WB     | W500023-S426   |
| M8              | 20mm   | 21   | AU-93-WF     | W500023-S437   |
| M8              | 20mm   | 21   | AU-93-WE     | W500023-S439   |
| M8              | 25mm   | 21   | AU-93-WC     | W500024-S426   |
| M8              | 30mm   | 21   | AU-93-WD     | W500225-S436   |
| M8              | 35mm   | 21   | AU-93-W      | N808809-S426   |
| M8              | 35mm   | 21   | AU-93-YW     | W704892-S300   |
| M10             | 25mm   | 21   | AU-93-ZA     | W500033-S426   |
| M10             | 30mm   | 21   | AU-93-ZC     | W705751-S301   |
| M10             | 33mm   | 21   | AU-93-F      | N800199-S8M    |
| M10             | 35mm   | 21   | AU-93-ZD     | W500035-S426   |
| M12             | 25mm   | 21   | AU-93-ZG     | W500041-S309   |
| M12             | 25mm   | 21   | AU-93-ZE     | W500041-S426   |
| M4.2            | 13mm   | 22   | AU-93-BZ     | N801164-S36B   |
| M6              | 22mm   | 22   | AU-97-ZZ     | W705962-S309U  |
| M6              | 34mm   | 22   | AU-97-Z      | W706824-S309U  |
| M6.1            | 36mm   | 22   | AU-97        | W706824-S309U  |
| M6.1            | 36mm   | 22   | AU-97        | W706824-S900   |
| M6.3            | 19mm   | 22   | AU-95-A      | N808955-S301   |
| M6.3            | 19mm   | 22   | AU-95        | N808955-S435   |
| M4.8            | 16mm   | 23   | AU-96-A      | N807011-S36    |
| M4.8            | 16mm   | 23   | AU-96-B      | N807011-S301   |
| M4.8            | 16mm   | 23   | AU-96-A      | N807011-S307   |
| M4.8            | 16mm   | 23   | AU-96-A      | N807011-S410   |
| M4.8            | 16mm   | 23   | AU-96        | W704874-S301   |
| M6              | 20mm   | 24   | AU-97-B      | W701099-S1430  |

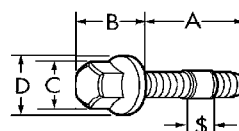
## PH-169(A) SCREW OR BOLT — HEXAGON HEAD



TYPE 1



TYPE 2



TYPE 3

\$ ADHESIVE PATCH

PH-169(A)  
01/10/2003

| NOMINAL SIZE | A    | B      | C    | D       | TYPE | P/C  | LOCATOR CODE | PART NUMBER    |
|--------------|------|--------|------|---------|------|------|--------------|----------------|
| M6           | 12mm | 4.24mm | 10mm | 11.55mm | 1    | 8.8  | WA-150-A     | W501021-S309   |
| M6           | 12mm | 6.9mm  | 8mm  | 13.6mm  | 1    | 10.9 | WA-130-S     | W500611-S1303  |
| M8           | 12mm | 8.5mm  | 10mm | 17mm    | 1    | 8.8  | WE-110-V     | W500220-S301   |
| M8           | 12mm | 8.5mm  | 10mm | 17mm    | 1    | 8.8  | WE-110-V     | W500220-S309   |
| M8           | 20mm | 5.43mm | 13mm | 11.55mm | 1    | 10.9 | WA-161-A     | ★W501733-S309  |
| M5           | 8mm  | 5.8mm  | 7mm  | 11.4mm  | 2    | 8.8  | WE-110-M     | W500200-S309   |
| M5           | 12mm | 5.8mm  | 7mm  | 11.4mm  | 2    | 8.8  | WE-110-N     | W500202-S437   |
| M5           | 20mm | 5.8mm  | 7mm  | 11.4mm  | 2    | 8.8  | WE-110-P     | W500205-S437   |
| M6           | 10mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-R     | W500210-S301   |
| M6           | 10mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-S     | W500210-S309   |
| M6           | 10mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-R     | W500210-S437   |
| M6           | 10mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-R     | W500210-S439   |
| M6           | 16mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-A     | W500213-S301   |
| M6           | 16mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-A     | W500213-S303   |
| M6           | 16mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-A     | W500213-S307   |
| M6           | 16mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-A     | W500213-S309   |
| M6           | 16mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-A     | W500213-S421   |
| M6           | 16mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-A     | W500213-S437   |
| M6           | 16mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-A     | W500213-S1309  |
| M6           | 25mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WA-110-C     | W500015-S437   |
| M6           | 25mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-U     | W500215-S301   |
| M6           | 25mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-U     | W500215-S309   |
| M6           | 25mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-U     | W500215-S427   |
| M6           | 25mm | 6.9mm  | 8mm  | 13.6mm  | 2    | 8.8  | WE-110-U     | W500215-S437   |
| M8           | 14mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-M     | W500221-S301   |
| M8           | 14mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-M     | W500221-S309   |
| M8           | 14mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-M     | W500221-S437   |
| M8           | 14mm | 8.5mm  | 10mm | 17mm    | 2    | 10.9 | WA-130-R     | W500621-S426   |
| M8           | 20mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-AB    | W500223-S301   |
| M8           | 20mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-AA    | W500223-S303   |
| M8           | 20mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-AC    | W500223-S309   |
| M8           | 20mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-AD    | W500223-S437   |
| M8           | 20mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-AE    | W500223-S439   |
| M8           | 20mm | 8.5mm  | 10mm | 17mm    | 2    | 10.9 | WA-130-U     | W500623-S1303  |
| M8           | 25mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-B     | W500224-S309   |
| M8           | 25mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-B     | W500224-S426   |
| M8           | 25mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-B     | W500224-S431   |
| M8           | 25mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-B     | W500224-S437   |
| M8           | 25mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-B     | W500224-S439   |
| M8           | 25mm | 8.5mm  | 10mm | 17mm    | 2    | 10.9 | WA-130-V     | W500624-S426   |
| M8           | 25mm | 8.5mm  | 10mm | 17mm    | 2    | 10.9 | WA-130-A     | ★W500624-S437M |
| M8           | 30mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-D     | W500225-S309   |
| M8           | 30mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-D     | W500225-S426   |
| M8           | 30mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-D     | W500225-S431   |
| M8           | 30mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-D     | W500225-S437   |
| M8           | 30mm | 8.5mm  | 10mm | 17mm    | 2    | 8.8  | WA-110-D     | W500225-S439   |
| M10          | 15mm | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WE-110-W     | W500230-S301   |
| M10          | 16mm | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WA-110-E     | ★W500231-S301  |
| M10          | 16mm | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WA-110-WA    | W500231-S437   |
| M10          | 16mm | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WA-110-WA    | W500231-S439   |

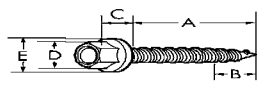
(continues)

## PH-169(A) SCREW OR BOLT — HEXAGON HEAD (Cont'd)

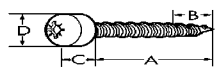
| NOMINAL SIZE | A      | B      | C    | D       | TYPE | P/C  | LOCATOR CODE | PART NUMBER    |
|--------------|--------|--------|------|---------|------|------|--------------|----------------|
| M10          | 16mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 10.9 | WA-130-T     | W500631-S301   |
| M10          | 20mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WE-110-X     | W500232-S309   |
| M10          | 20mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 10.9 | WA-130-J     | W500632-S301   |
| M10          | 20mm   | 10mm   | 13mm | 18.55mm | 2    | 10   | WA-110-F     | W707730-S900   |
| M10          | 25mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WA-110-MA    | W500233-S301   |
| M10          | 25mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WA-110-MB    | W500233-S309   |
| M10          | 25mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WA-110-MC    | W500233-S439   |
| M10          | 25mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 10.9 | WA-130-A     | W500633-S300   |
| M10          | 25mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 10.9 | WA-130-B     | W500633-S301   |
| M10          | 25mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 10.9 | WA-130-C     | W500633-S309   |
| M10          | 25mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 10.9 | WA-130-D     | ★ W500633-S426 |
| M10          | 25mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 10.9 | WA-130-A     | W500633-S439   |
| M10          | 30mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WA-130-E     | W500034-S301   |
| M10          | 30mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WA-130-F     | W500034-S303   |
| M10          | 30mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WA-130-G     | W500034-S309   |
| M10          | 30mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 10.9 | WA-130-W     | W500634-S307   |
| M10          | 30mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 10.9 | WA-130-W     | W500634-S309   |
| M10          | 35mm   | 9.7mm  | 13mm | 20.8mm  | 2    | 8.8  | WE-110-Y     | W500235-S426   |
| M12          | 30mm   | 11.9mm | 15mm | 24.7mm  | 2    | 10.9 | WA-130-X     | W500642-S301   |
| M12          | 30mm   | 11.9mm | 15mm | 24.7mm  | 2    | 10.9 | WA-130-X     | W500642-S436   |
| M12          | 35mm   | 11.9mm | 15mm | 24.7mm  | 2    | 8.8  | WE-110-Z     | W500243-S309   |
| M12          | 40mm   | 11.9mm | 15mm | 24.7mm  | 2    | 10.9 | WA-130-H     | W500644-S438   |
| M14          | 40mm   | 12.9mm | 18mm | 28.6mm  | 2    | 10.9 | WA-130-Y     | W500653-S439   |
| M14          | 45mm   | 12.9mm | 18mm | 28.6mm  | 2    | 10.9 | WA-130-Z     | W500654-S426   |
| M14          | 45mm   | 12.9mm | 18mm | 28.6mm  | 2    | 10.9 | WA-130-Z     | W500654-S439   |
| M6           | \$20mm | 6.9mm  | 8mm  | 13.6mm  | 3    | 8.8  | WA-120-A     | W708762-S426   |
| M8           | \$16mm | 8.5mm  | 10mm | 17mm    | 3    | 8.8  | WA-120-B     | W708763-S426   |
| M8           | \$20mm | 6mm    | 10mm | 22.6mm  | 3    | 8.8  | WA-120-D     | W708765-S426   |
| M8           | \$20mm | 8.5mm  | 10mm | 17mm    | 3    | 8.8  | WA-120-C     | W708764-S426   |

\$ = Adhesive patch

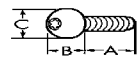
## PH-169(B) SCREW — SELF TAPPING HEXAGON OR PAN HEAD



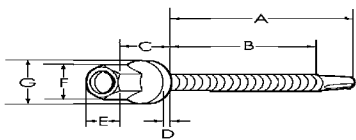
TYPE 1



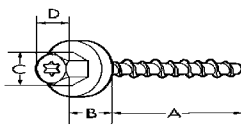
TYPE 2



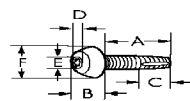
TYPE 3



TYPE 4



TYPE 5



TYPE 6

PH-169(B)  
12/01/2003

| NOMINAL SIZE | A        | B     | C      | D      | E      | F | G | TYPE | LOCATOR CODE | PART NUMBER                      |
|--------------|----------|-------|--------|--------|--------|---|---|------|--------------|----------------------------------|
| 4.2mm        | 10mm     | 2.8mm | 4.3mm  | 7.5mm  | 13mm   | — | — | 1    | WD-135-A     | W505151-S424                     |
| 4.2mm        | 13mm     | 3.7mm | 4mm    | 5.5mm  | 8.2mm  |   |   | 1    | WD-100-A     | W504042-S424<br>Hex flange head  |
| 4.2mm        | 13mm     | 2.8mm | 4.3mm  | 7.5mm  | 13mm   | — | — | 1    | WD-135-B     | W505152-S309U                    |
| 4.2mm        | 13mm     | 2.8mm | 4.3mm  | 7.5mm  | 13mm   | — | — | 1    | WD-135-C     | W505153-S424                     |
| 4.2mm        | 13mm     | 2.8mm | 4.3mm  | 7.5mm  | 13mm   | — | — | 1    | WD-135-C     | W505153-S439                     |
| 4.2mm        | 22mm     | 2.8mm | 4.3mm  | 7.5mm  | 13mm   | — | — | 1    | WD-135-G     | W505155-S424                     |
| 4.2mm        | 25mm     | 2.8mm | 4mm    | 5.5mm  | 8.2mm  | — | — | 1    | WD-101-B     | W504146-S309                     |
| 4.2mm        | 30mm     | 2.8mm | 4.3mm  | 7.5mm  | 13mm   | — | — | 1    | WD-135-D     | W505157-S424                     |
| 4.2mm        | 32mm     | 3.2mm | 4mm    | 5mm    | 8.2mm  | — | — | 1    | WD-100-C     | W504047-S439                     |
| 4.8mm        | 13mm     | 3.2mm | 5.3mm  | 8.66mm | 15mm   | — | — | 1    | WD-135-E     | W505164-S301                     |
| 4.8mm        | 22mm     | 4.3mm | 5.2mm  | 7mm    | 9.8mm  | — | — | 1    | WD-100-B     | W504064-S309<br>Hex flange head  |
| 4.8mm        | 22mm     | 4.3mm | 5.2mm  | 7mm    | 9.8mm  | — | — | 1    | WD-100-B     | W504064-S424<br>Hex flange head  |
| 4.8mm        | 45mm     | 5.2mm | 3.2mm  | 7mm    | 9.8mm  | — | — | 1    | WD-101-A     | W504169-S301<br>Hex flange head  |
| M10          | \$18.3mm | 3mm   | 24.7mm | —      | —      |   |   | 1    | AU-9-SA      | W705317-S424<br>Hex flange head  |
| 6.3mm        | 13mm     | 3.6mm | 6.2mm  | 8mm    | 12.2mm | — | — | 1    | WD-101-C     | W504181-S307                     |
| 6.3mm        | 16mm     | 3.6mm | 6.2mm  | 8mm    | 12.2mm | — | — | 1    | WD-101-D     | W504182-S60                      |
| 6.3mm        | 16mm     | 3.6mm | 6.2mm  | 8mm    | 12.2mm | — | — | 1    | WD-101-D     | W504182-S301                     |
| 6.3mm        | 16mm     | 3.6mm | 6.2mm  | 8mm    | 12.2mm | — | — | 1    | WD-101-D     | W504182-S439                     |
| 3.5mm        | 16mm     | 3.2mm | 2.6mm  | 7mm    | —      |   |   | 2    | WD-110-A     | W504222-S<br>Pan head            |
| 4.2mm        | 9.5mm    | 3.7mm | 3.1mm  | 8mm    | —      | — | — | 2    | WD-110-C     | W504240-S309<br>Pan head         |
| 4.2mm        | 9.5mm    | 3.7mm | 3.1mm  | 8mm    | —      | — | — | 2    | WD-110-C     | ★W504240-S424<br>Pan head        |
| 4.2mm        | 52.1mm   | —     | #3.1mm | 8mm    | —      | — | — | 2    | WD-110-A     | W710143-S300                     |
| 4.8mm        | 38mm     | 4.3mm | 3.7mm  | 9.5mm  | —      | — | — | 2    | WD-110-D     | ★W504267-S424<br>Hex flange head |
| M8           | 15mm     | 6mm   | 16mm   | —      | —      |   |   | 3    | AU-98-A      | W700048-S309<br>Pan head         |

## PH-169(B) SCREW — SELF TAPPING HEXAGON OR PAN HEAD (Cont'd)

| NOMINAL SIZE | A       | B       | C      | D      | E      | F       | G       | TYPE | LOCATOR CODE | PART NUMBER                      |
|--------------|---------|---------|--------|--------|--------|---------|---------|------|--------------|----------------------------------|
| M6           | 20.0mm  | 4.4mm   | 6.9mm  | 1.10mm | 8.00mm | 9.23mm  | 14.2mm  | 4    | WC-302-E     | N805375-S36MG                    |
| M6           | 20.0mm  | 4.4mm   | 6.9mm  | 1.10mm | 8.00mm | 9.23mm  | 14.2mm  | 4    | WC-302-E     | N805375-S301                     |
| M6           | 20.0mm  | 4.4mm   | 6.9mm  | 1.10mm | 8.00mm | 9.23mm  | 14.2mm  | 4    | WC-302-E     | N805375-S309M                    |
| M6           | 20.0mm  | 4.4mm   | 6.9mm  | 1.10mm | 8.00mm | 9.23mm  | 14.2mm  | 4    | WC-302-E     | N805375-S361                     |
| M6           | 20.0mm  | 4.4mm   | 6.9mm  | 1.10mm | 8.00mm | 9.23mm  | 14.2mm  | 4    | WC-302-E     | N805375-S439                     |
| M6           | 37.80mm | 6.50mm  | 6.90mm | .95mm  | 8mm    | 8.66mm  | 15mm    | 4    | WC-302-M     | W707305-S301<br>Hex flange head  |
| M6           | 37.80mm | 6.50mm  | 6.90mm | .95mm  | 8mm    | 8.66mm  | 15mm    | 4    | WC-302-M     | W707305-S415                     |
| M8           | 30.50mm | 20.42mm | 9.30mm | 1.25mm | 13mm   | 14.17mm | 22.60mm | 4    | WC-302-N     | W704801-S426<br>Hex flange head  |
| M4.8         | 19.00mm | 2.5mm   | 7.55mm | —      | —      | —       | —       | 5    | WC-301-A     | N806034-S36                      |
| M4.8         | 19.00mm | 2.5mm   | 7.55mm | —      | —      | —       | —       | 5    | WC-301-A     | N806034-S61                      |
| M4.8         | 19.00mm | 2.5mm   | 7.55mm | —      | —      | —       | —       | 5    | WC-301-A     | N806034-S403                     |
| M4.8         | 19.00mm | 2.5mm   | 7.55mm | —      | —      | —       | —       | 5    | WC-301-A     | N806034-S437M                    |
| M5           | 16.0mm  | 3.3mm   | —      | —      | —      | —       | —       | 5    | WC-302-A     | W701459-S309<br>Hex flange head  |
| M5           | 16.0mm  | 3.3mm   | —      | —      | —      | —       | —       | 5    | WC-302-B     | W701459-S309M<br>Hex flange head |
| M6.0         | 18.25mm | 4.5mm   | 5mm    | 1.9mm  | 5.61mm | 12.00mm | —       | 6    | WC-400       | W701945-S900                     |

\$ = Plastic patch

# Sealer

## PH-754 SCREW — SELF TAPPING HEX WASHER HEAD — CROSS RECESSED



PH-754

| NOMINAL SIZE | LENGTH | LOCATOR CODE | PART NUMBER   |
|--------------|--------|--------------|---------------|
| M4.2         | 13mm   | AB-10-E      | ★ N800499-S2  |
| M4.2         | 18.5mm | AB-10-A      | ★ N803498-S2  |
| M4.2         | 19mm   | AB-10-F      | ★ N800500-S2  |
| M4.2         | 19mm   | AB-10-B      | N804693-S36   |
| M6           | 29.5mm | AB-10-F      | N811441-S309M |

# Standard and Utility Parts Catalog

PH-175

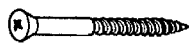
SCREW — SELF TAPPING — OVAL HEAD



TYPE 1



TYPE 2



TYPE 3



TYPE 4



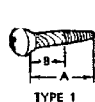
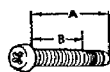
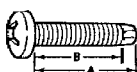
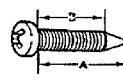
TYPE 5

TYPE 6  
PH-175

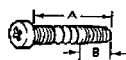
| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| No. 8    | 32     | 5/8"   | 5    | UU-56-H      | ★ 390334-S7 |
| No. 8    | 32     | 5/8"   | 5    | UU-56-H      | 390334-S304 |
| 1/4"     | 20     | 11/16" | 6    | UU-58-K      | 389465-S45  |

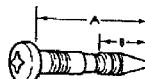
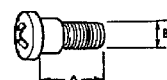
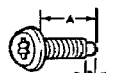
## Metric

| NOMINAL SIZE | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER    |
|--------------|---------|------|--------------|----------------|
| M4           | 25mm    | 1    | AU-6-D       | ★ N610051-S45  |
| M4.2         | 13mm    | 1    | 080-040      | N610017-S58    |
| M4.2         | 13mm    | 1    | 080-040      | N610017-S424   |
| M4.2         | 16.40mm | 1    | AU-6-AA      | W707089-S900   |
| M4.2         | 19mm    | 1    | AU-6-C       | N610019-S2     |
| M4.2         | 19mm    | 1    | AU-6-CA      | N610019-S9     |
| M4.2         | 19mm    | 1    | AU-6-C       | N610019-S427   |
| M4.2         | 19mm    | 1    | AU-6-C       | N610019-S440   |
| M4.2         | 25mm    | 1    | 080-040      | N610021-S424   |
| M4.2         | 25mm    | 1    | AU-6-DH      | ★ N610130-S2   |
| M4.2         | 25mm    | 1    | AU-6-AC      | N802841-S2     |
| M4.2         | 26mm    | 1    | 080-040      | N811354-S61    |
| M4.2         | 32mm    | 1    | AU-6-DL      | N610131-S2     |
| M4.2         | 32mm    | 1    | AU-6-DF      | N610131-S9     |
| M4.2         | 38mm    | 1    | AU-6-DJ      | N610132-S100   |
| M4.8         | 21.0mm  | 1    | AU-6-DB      | N807430-S424   |
| M8           | 19mm    | 1    | AU-11-F      | W504643-S424   |
| M4           | 30mm    | 2    | AU-5-K       | N801081-S9     |
| M4.2         | 19mm    | 2    | AU-5-Q       | W702226-S309   |
| M4.2         | 16mm    | 4    | AU-5-L       | ★ N610088-S36B |
| M6           | 25mm    | 5    | AU-5-Q       | W707397-S435   |
| M8           | 30mm    | 5    | AU-5-P       | N802381-S60    |

**PH-230**
**SCREW — PAN HEAD**

**TYPE 1**

**TYPE 2**

**TYPE 3**

**TYPE 4**

**TYPE 5**

**TYPE 6**

**TYPE 7**

**TYPE 11**

**TYPE 12**

**TYPE 13**

**TYPE 14**

**TYPE 15**

**TYPE 16**

**TYPE 17**
**PH-230**  
12/19/2002

| DIAMETER | THREAD | A       | B      | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|---------|--------|------|--------------|-------------|
| No. 8    | 32     | 27/64"  |        | 4    | UU-63-A      | 390723-S    |
| No. 8    | 18     | 1-1/4"  | 1-1/8" | 4    | UU-81-EA     | ★ 388695-S2 |
| No. 8    | 18     | 1/2"    | 3/8"   | 6    | UU-81-M      | ★ 379203-S2 |
| 1/2"     | 13     | 1-5/32" | 9/32"  | 14   | UU-222       | 389478-S190 |
| No. 10   | 16     | 2"      | 21/64" | 15   | UU-222-K     | 391450-S9   |

**Metric**

|       |         |         |        |    |          |                |
|-------|---------|---------|--------|----|----------|----------------|
| M6    | 1.0mm   | 22mm    | 21.0mm | 2  | AU-71-D  | W700989-S304   |
| M6    | —       | 22.42mm | —      | 2  | AU-71-DA | W708808-S430   |
| M4    | 30mm    | —       | —      | 3  | AU-71-DA | N603248-S426   |
| M5    | .8mm    | 33mm    | 33mm   | 3  | AU-71-C  | ★ N803851-S52  |
| M6    | —       | 24mm    | 19mm   | 3  | AU-71-AA | N807415-S101   |
| M10   | —       | 22mm    | —      | 3  | AU-68-A  | W708564-S424   |
| M4.2  | —       | 38mm    | —      | 4  | AU-63-CA | N806505-S100   |
| M6.3  | 1.81mm  | 19.0mm  | —      | 4  | AU-81-FS | N811084-S36MG  |
| M5    | —       | 18mm    | 15mm   | 5  | AU-81    | E804121-S201   |
| M4    | —       | 15.1mm  | 12.0mm | 6  | AU-67-B  | W700912-S309M  |
| M5    | 1.0mm   | 13mm    | 7.5mm  | 6  | AU-67-AA | N805853-S36    |
| M6    | 8.6mm   | 8.2mm   | 4.7mm  | 6  | AU-75-AA | W705830-S435   |
| M8    | 25mm    | —       | —      | 6  | AU-67-A  | ★ W702232-S309 |
| M3    | —       | 8mm     | 7mm    | 11 | AU-70-F  | ★ E802167-S201 |
| M3    | —       | 7mm     | —      | 11 | AU-70-FA | ★ N808819-S309 |
| M5    | —       | 30mm    | —      | 11 | AU-70-L  | N603257-S103   |
| M5    | —       | 30mm    | —      | 11 | AU-70-L  | ★ N603257-S104 |
| M5    | —       | 30mm    | —      | 11 | AU-70-L  | ★ N603257-S437 |
| M6    | —       | 10mm    | —      | 11 | AU-70-H  | N804855-S100   |
| M6    | —       | 25mm    | 8.8    | 11 | AU-70-HA | W707986-S900   |
| M8    | —       | 35mm    | —      | 11 | AU-70-M  | W702234-S309   |
| M8    | 1.25mm  | 25mm    | —      | 11 | AU-70-J  | W703497-S430   |
| M4.2  | 8mm     | 2.12mm  | 16mm   | 13 | AU-69-AU | N811254-S1061  |
| M5    | 3mm     | 25mm    | 5mm    | 13 | AU-69-A  | W703395-S309   |
| M6    | 1.0mm   | 14.0mm  | 12.0mm | 13 | AU-69-B  | ★ N808001-S190 |
| M6    | —       | 30mm    | 8.6mm  | 13 | AU-69-ZA | W708405-S900   |
| M5    | —       | 18mm    | —      | 14 | AU-75-A  | E802140-S74    |
| M5    | 14.33   | 2mm     | —      | 14 | AU-75-AD | N807952-S49    |
| M6    | —       | 15.8mm  | 3.5mm  | 14 | AU-75-AE | N808153-S100   |
| M6    | 1.79mm  | 22mm    | —      | 14 | AU-75-JJ | W705534-S309   |
| M6    | 1.79mm  | 25mm    | —      | 14 | AU-75-Z  | W702921-S300   |
| M6    | 15.3mm  | 17.8mm  | 2.5mm  | 14 | 080-030  | N805858-S100   |
| M6    | 18.30mm | 3.5mm   | —      | 14 | AU-75-AG | N807493-S101   |
| M10   | —       | 30.0mm  | 7.0mm  | 14 | AU-75-AL | W700883-S409M  |
| M10   | —       | 30.0mm  | 7.0mm  | 14 | AU-75-AL | W700883-S424   |
| M8    | —       | 10.5mm  | 4.98   | 14 | AU-75-AP | W705450-S436   |
| M4    | 16mm    | —       | —      | 15 | AU-78-EA | W707542-S424   |
| M4    | 1.79mm  | 10.0mm  | —      | 15 | AU-78-AA | W701678-S36    |
| M4.2  | 1.41mm  | 16.8mm  | —      | 15 | AU-78-F  | N806427-S36    |
| 4.2mm | —       | 45.3mm  | 3.1mm  | 16 | AU-78-FA | W708859-S300   |
| M5    | —       | 30mm    | 6.0mm  | 17 | AU-78-FB | W707850-S309   |

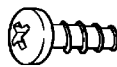


# Standard and Utility Parts Catalog

**PH-176      SCREW — SELF TAPPING — PAN HEAD**



TYPE 1



TYPE 2



TYPE 3

PH176

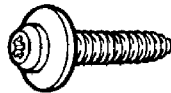
| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR SIZE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| No. 8    | 12     | 3/4"   | 2    | UU-87-D      | 389404-S36  |

| Metric       |         |      |              |               |
|--------------|---------|------|--------------|---------------|
| NOMINAL SIZE | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER   |
| M3.63        | 13.47mm | 1    | AU-8-EY      | N808812-S424  |
| M4.2         | 12.7mm  | 1    | AU-8-EX      | N803414-S9    |
| M4.2         | 16mm    | 1    | AU-8-6A      | W504242-S309U |
| M4.2         | 16mm    | 1    | AU-8-6A      | W504242-S424  |
| M4.2         | 19mm    | 1    | AU-8-6C      | W504243-S307  |
| M4.2         | 19mm    | 1    | AU-8-6C      | W504243-S309U |
| M4.2         | 19mm    | 1    | AU-8-6C      | W504243-S426  |
| M4.2         | 19mm    | 1    | AU-8-SS      | W504543-S300  |
| M4.4         | 12mm    | 1    | AU-8-6H      | W702228-S302  |
| M4.8         | 16mm    | 1    | AU-8-GA      | W702556-S303  |
| M4.8         | 19mm    | 1    | AU-8-GF      | E610268-S74   |
| M6           | 19mm    | 1    | AU-8-EK      | E610228-S74   |
| M8           | 9.5mm   | 1    | AU-8-EV      | E610245-S71   |
| M8           | 19mm    | 1    | AU-8-EW      | E610248-S74   |
| M8           | 25mm    | 1    | AU-8-EA      | E610250-S74   |
| M8           | 17mm    | 3    | AU-12-JA     | W707262-S303  |

**PH-176(A)      SCREW — SELF TAPPING — PAN WASHER HD**



TYPE 1

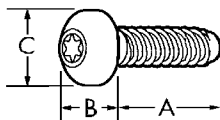


TYPE 2

PH-176(A)

| Metric       |        |      |              |              |
|--------------|--------|------|--------------|--------------|
| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
| M2.9         | 32mm   | 1    | 080-030      | W504246-S424 |
| M5.3         | 32mm   | 1    | AU-90-CD     | W702776-S303 |
| M7           | 16mm   | 1    | AU-90-CB     | W701850-S307 |
| M4           | 12.2mm | 2    | AU-8-EC      | W704443-S424 |
| M4           | 20.5mm | 2    | AU-8-EZ      | W706944-S900 |
| M4.2         | 25.4mm | 2    | AU-91-E      | N805800-S100 |
| M4.8         | 14mm   | 2    | AU-8-D       | W701680-S424 |
| M4.8         | 19mm   | 2    | AU-8-AB      | W701799-S301 |
| M5           | 10mm   | 2    | AU-90        | N803645-S36  |
| M6           | 24.5mm | 2    | AU-91-H      | N806715-S36B |

## PH-176(B) SCREW — PAN HEAD PILOTED — MACHINE SCREW

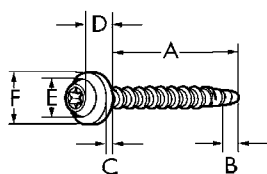


TYPE 1

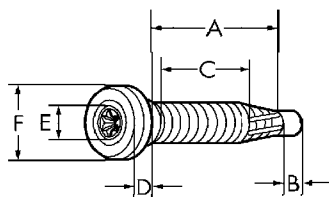
PH-176 (B)  
12/19/2002

| NOMINAL SIZE | A       | B     | C       | TYPE | P/C           | LOCATOR CODE | PART NUMBER   |
|--------------|---------|-------|---------|------|---------------|--------------|---------------|
| M2.5         | 6mm     | 2.1mm | 5.0mm   | 1    | —             | WB-108       | W504651-S309M |
| M3           | 6mm     | 2.6mm | 5.6mm   | 1    | —             | WB-108-E     | W504661-S309M |
| M4           | 16mm    | 3.1mm | 8mm     | 1    | 8.8           | WB-106-B     | W505565-S437  |
| M4           | 20mm    | 3.1mm | 8.0mm   | 1    | —             | WB-108-M     | W504687-S309U |
| M4           | 20mm    | 3.1mm | 8.0mm   | 1    | —             | WB-108-M     | W504687-S424  |
| M5           | 8mm     | 3.7mm | 9.5mm   | 1    | —             | WB-108-A     | W504692-S424  |
| M5           | 8mm     | 3.7mm | 9.5mm   | 1    | 8.8           | WB-103-C     | W505520-S309  |
| M5           | 8mm     | 3.7mm | 9.5mm   | 1    | 8.8           | WB-103-C     | W505520-S437  |
| M5           | 10.5mm  | 3.7mm | 8.50mm  | 1    | 9.8,9.81,9.82 | WB-103-M     | N807337-S100  |
| M5           | 12mm    | 3.7mm | 9.5mm   | 1    | 8.8           | WB-103-E     | W505522-S309  |
| M6           | 12mm    | 4.6mm | 12mm    | 1    | 8.8           | WB-103-B     | W505531-S306  |
| M6           | 12mm    | 4.6mm | 12mm    | 1    | 8.8           | WB-106-F     | W505581-S437  |
| M6           | 16mm    | 4.6mm | 11.57mm | 1    | 8.8           | WB-103-CA    | W505533-S302  |
| M6           | 16mm    | 4.6mm | 11.57mm | 1    | 8.8           | WB-103-CB    | W505533-S424  |
| M6           | 16mm    | 4.6mm | 11.57mm | 1    | 8.8           | WB-103-CC    | W505533-S437  |
| M6           | 16mm    | 4.6mm | 12mm    | 1    | 8.8           | WB-106-H     | W505583-S3VG  |
| M6           | 16mm    | 4.6mm | 12mm    | 1    | 8.8           | WB-106-E     | W505583-S301  |
| M6           | 16mm    | 4.6mm | 12mm    | 1    | 8.8           | WB-106-F     | W505583-S428  |
| M6           | 18.25mm | —     | 13.18mm | 1    | 010           | WB-107-A     | W705497-S435  |
| M6           | 20mm    | 4.6mm | 11.57mm | 1    | 8.8           | WB-103-CD    | W505534-S437  |
| M6           | 20mm    | 4.6mm | 12mm    | 1    | 8.8           | WB-106-E     | W505584-S436  |
| M8           | 20mm    | 6mm   | 15.75mm | 1    | 8.8           | WB-103-A     | W505543-S309  |

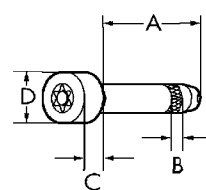
## PH-176(C) SCREW — SELF TAPPING — PAN HEAD WASHER



TYPE 1



TYPE 2



TYPE 3

PH-176C  
01/10/2003

| NOMINAL SIZE | A    | B     | C      | D      | E     | F      | G      | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|------|-------|--------|--------|-------|--------|--------|------|--------------|--------------|
| 4.2mm        | 19mm | 2mm   | 1.30mm | 3.33mm | 8mm   | 13mm   | 2.75mm | 1    | AU-91-HA     | N808328-S900 |
| 4.8mm        | 15mm | —     | 1.1mm  | 4.2mm  | 8mm   | 11mm   | 3.68mm | 1    | AU-91-HB     | W705064-S435 |
| 4.8mm        | 19mm | 4.8mm | 1.00mm | 3.4mm  | —     | 12.0mm | —      | 1    | AU-91-HC     | W703268-S303 |
| 4.8mm        | 19mm | 4.8mm | 1.00mm | 3.4mm  | —     | 12.0mm | —      | 1    | AU-91-HC     | W703268-S424 |
| 4.8mm        | 19mm | 4.8mm | 1.00mm | 3.4mm  | —     | 12.0mm | —      | 1    | AU-91-HC     | W703268-S900 |
| M6           | 20mm | 3mm   | 8.2mm  | 3.0mm  | 7.0mm | 18mm   | —      | 2    | AU-92-AA     | W708464-S900 |
| M11          | 31mm | 5mm   | 8mm    | 18mm   | —     | —      | —      | 3    | AU-92-AD     | W707339-S430 |

\$ Adhesive

# Standard and Utility Parts Catalog

PH-177      SCREW — SELF TAPPING — ROUND WASHER HEAD — CROSS RECESSED/SLOT



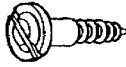
TYPE 1



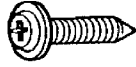
TYPE 2



TYPE 3



TYPE 4



TYPE 5



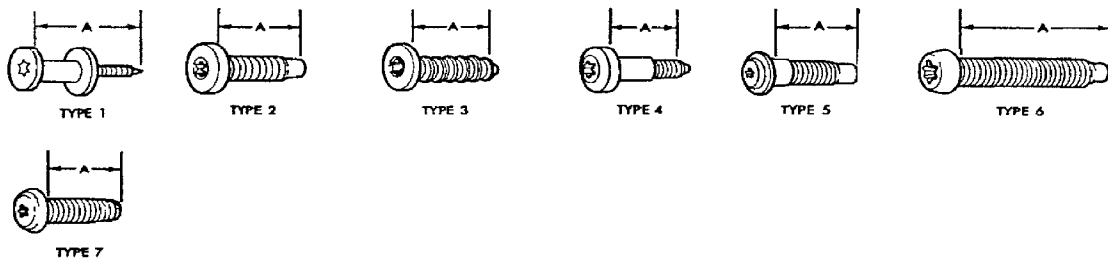
TYPE 6

PH-177

| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| No. 8    | 18     | 25/32" | 3    | UU-90-B      | 386351-S2   |
| No. 8    | 18     | 3/8"   | 5    | UU-104-J     | 384439-S61  |
| No. 8    | 18     | 1-1/2" | 5    | UU-89-R      | 56908-S424  |
| No. 8    | 12     | 1/2"   | 6    | UU-104-H     | 385754-S36B |
| No. 8    | 18     | 1/2"   | 6    | UU-104-J     | 56920-S58   |

| Metric       |         |      |              |               |
|--------------|---------|------|--------------|---------------|
| NOMINAL SIZE | LENGTH  | TYPE | LOCATOR CODE | PART NUMBER   |
| M4.2         | 9.6mm   | 1    | AB-4-EE      | N801775-S43B  |
| M4.2         | 19mm    | 1    | AU-4-EN      | N800876-S49   |
| M4.2         | 19mm    | 1    | AU-4-EQ      | W705228-S901  |
| M4.2         | 19mm    | 1    | AU-4-EL      | W706805-S901  |
| M4.2         | 19.8mm  | 1    | AU-4-ER      | N803128-S43B  |
| M4.2         | 20mm    | 1    | AU-4-EP      | N801603-S36B  |
| M4.2         | 20mm    | 1    | AU-4-EP      | N801603-S61   |
| M4.2         | 22mm    | 1    | AU-4-EC      | E810060-S74   |
| M8           | 18mm    | 1    | AU-4-HG      | 56913-S47     |
| M8           | 18mm    | 1    | AU-4-HG      | 56913-S61     |
| M8           | 18mm    | 1    | AU-5-HG      | 56913-S101    |
| M4           | 18.9mm  | 3    | AU-4-EE      | ★N806654-S55  |
| M4.2         | 14.8mm  | 3    | AU-4-ED      | ★N805609-S55  |
| M4.2         | 19.0mm  | 3    | AU-4-ES      | N802735-S58   |
| M4.8         | 14mm    | 3    | AU-4-EB      | ★N804253-S100 |
| M4.8         | 13.6mm  | 4    | AB-4-GA      | ★N802189-S45  |
| M4.8         | 13.6mm  | 4    | AB-4-G       | N802189-S53B  |
| M4.8         | 16.7mm  | 4    | AB-4-J       | N802214-S433  |
| M4.8         | 38.9mm  | 4    | AB-4-H       | N802270-S49   |
| M3.5         | 19.5mm  | 5    | AB-149-I     | W705133-S424  |
| M4           | 12.85mm | 5    | AU-149-B     | N807989-S36B  |
| M4.2         | 9.5mm   | 5    | 080-060      | W702606-S424  |
| M4.2         | 12.7mm  | 5    | AU-149-CA    | N808541-S100X |
| M4.2         | 32mm    | 5    | AU-149-C     | N804992-S58   |
| M4.8         | 16mm    | 5    | 080-060      | W702458-S309  |
| M4.8         | 19mm    | 5    | AU-149-D     | N808050-S40   |
| M4.8         | 21.5mm  | 5    | AU-149-A     | ★N804764-S100 |
| M8           | 18mm    | 5    | AU-149-E     | ★56914-S101   |
| M8           | 19mm    | 5    | AU-149-F     | 56912-S       |
| M8           | 19mm    | 5    | AU-149-F     | 56912-S61X    |
| M8           | 19mm    | 5    | AU-149-F     | 56912-S424    |
| M8           | 19mm    | 5    | AU-149       | ★E812133-S71  |
| M8           | 19mm    | 5    | AU-149-G     | ★E812133-S71M |
| M3.5         | 10.8mm  | 6    | AU-149-H     | N805063-S36   |
| M4           | 20.0mm  | 6    | AU-150       | N807534-S61   |
| M4.6         | 16.9mm  | 6    | AU-150-L     | W707433-S900  |
| M4.8         | 19.0mm  | 6    | AU-150-A     | W706347-S309U |
| M5           | 16.5mm  | 6    | AU-150-M     | W700113-S309  |
| M5.5         | 13.76mm | 6    | AU-149-G     | N808040-S100  |

## PH-727 SCREW — TORX HEAD



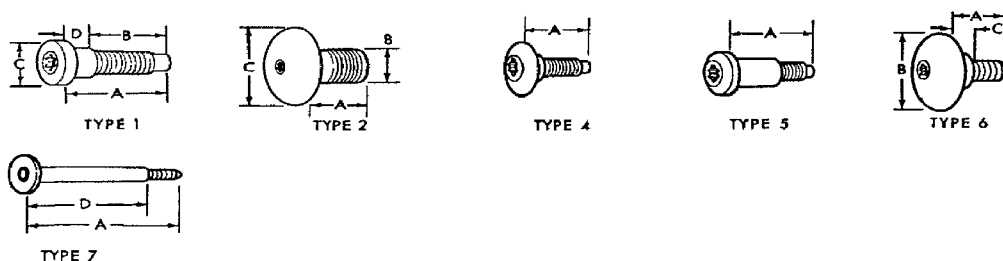
PH-727

| DIAMETER | THREAD | A       | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|---------|------|--------------|--------------|
| 1/4"     | 16     | 5/8"    | 3    | UU-168-EC    | 387978-S56   |
| 5/16"    | 18     | 1-7/32" | 7    | UU-168-G     | 390945-S100  |
| 1/4"     | 20     | 3/4"    | 7    | UU-157-B     | 391477-S100  |
| 1/4"     | 20     | 1"      | 7    | UU-157-C     | ★391478-S100 |
| 7/16"    | 20     | 1-5/32" | 7    | UU-157-D     | 389370-SA    |

### Metric

|      |        |         |   |           |               |
|------|--------|---------|---|-----------|---------------|
| M10  | .500mm | 35mm    | 1 | AU-163-Z  | W707381-S900  |
| M12  | 1.75mm | 118.8mm | 1 | AU-163-A  | ★N811190-S101 |
| M6   | 1.0    | 13.0mm  | 2 | AU-170-AB | N807991-S36   |
| M10  | 1.5mm  | 58.6mm  | 4 | UU-172-G  | N806389-S2    |
| M10  | 1.5mm  | 27.9mm  | 5 | UU-172-A  | N806387-S2    |
| M6   |        | 35mm    | 5 | AB-195-EB | E804395-S76   |
| M12  | 1.05mm | 117mm   | 5 | AU-77-AZ  | W706535-S900  |
| M6   | 10mm   | 27mm    | 6 | AU-77-A   | E802422-S100  |
| M8   |        | 34.5mm  | 6 | AU-77-C   | W705732-S426  |
| M12  | —      | 45mm    | 6 | AU-77-BA  | ★N811815-S424 |
| M3.5 | 1.34mm | 19.76mm | 7 | AU-162-A  | N808124-S8M   |
| M4.2 | 1.41mm | 10mm    | 7 | AB-197-HA | ★N806147-S100 |
| M5   |        | 14mm    | 7 | AU-82-B   | E812140-S100  |
| M6   | 1.5mm  | 25mm    | 7 | AB-195-AE | W504756-S     |
| M12  | 1.75mm | 30.0mm  | 7 | AB-195-AD | N804647-S     |

## PH-736 SCREW and BOLT — TORX HEAD — SHOULDER — TAPPING



PH-736

### National Fine Thread

|       |    |         |        |        |         |   |   |          |              |
|-------|----|---------|--------|--------|---------|---|---|----------|--------------|
| 7/16" | 20 | 7/8"    | 3/8"   | 27/32" | 3/4"    |   | 1 | UU-156-D | 386272-S100  |
| 7/16" | 20 | 1-3/8"  | 3/8"   | 27/32" | 1-3/16" |   | 1 | UU-170-A | ★386582-S100 |
| 7/16" | 20 | 1-3/4"  | 1"     | 27/32" | 3/4"    |   | 1 | UU-156-E | 386276-S100  |
| 7/16" | 20 | 1-3/4"  | 1-1/4" | 27/32" | 1/2"    |   | 1 | UU-156-A | 386274-S100  |
| 7/16" | 20 | 1-3/4"  | 1-1/4" | 27/32" | 1/2"    | — | 1 | UU-156-A | 386274-S101  |
| 7/16" | 20 | 2-5/32" | 1"     | 27/32" | 1-5/32" |   | 1 | BB-913   | 386392-S100  |

### Special Thread

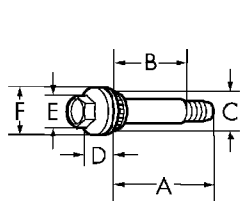
|      |    |        |        |        |      |  |   |          |             |
|------|----|--------|--------|--------|------|--|---|----------|-------------|
| 3/8" | 20 | 1-3/8" | 15/16" | 27/32" | 1/2" |  | 1 | UU-156-C | 386277-S100 |
|------|----|--------|--------|--------|------|--|---|----------|-------------|

### Metric Coarse Thread

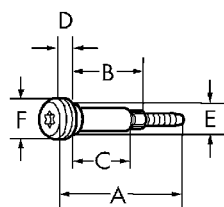
| NOMINAL SIZE | THREAD | A     | B | C | D | E | TYPE | LOCATOR CODE | PART NUMBER |
|--------------|--------|-------|---|---|---|---|------|--------------|-------------|
| M4           | 0.7mm  | 9.0mm | — | — | — | — | 4    | AU-85-B      | N808726-S2  |
| M10          | 1.5mm  | 33mm  |   |   |   |   | 5    | AU-174-B     | N806390-S2  |

# Standard and Utility Parts Catalog

## PH-736(A) SCREW and BUSHING



TYPE 1

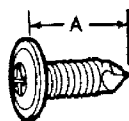


TYPE 2

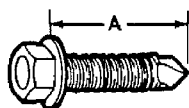
PH-736(A)  
01/10/2003

| NOMINAL SIZE | A    | B    | C       | D      | E      | F      | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|------|------|---------|--------|--------|--------|------|--------------|--------------|
| M10          | 65mm | 45mm | 16.83mm | 11.9mm | 15mm   | 24.7mm | 1    | II-300-A     | W707767-S900 |
| M10          | 79mm | 52mm | 43.9mm  | 7.5mm  | 16.7mm | 23mm   | 2    | II-301-A     | W707768-S900 |

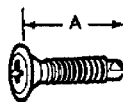
## PH-717 SCREW and WASHER ASSY. — SELF TAPPING — DRILL END



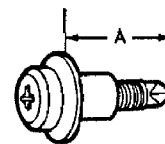
TYPE 1



TYPE 2



TYPE 3



TYPE 4

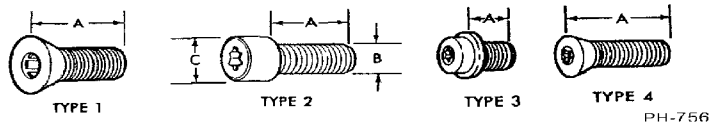
PH-717

| DIAMETER | THREAD | A    | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|------|------|--------------|-------------|
| No. 8    | 18     | 1/2" | 3    | UU-148       | 381801-S2   |
| No. 8    | 18     | 3/4" | 3    | UU-148-A     | 382413-S2   |
| No. 8    | 18     | 1"   | 3    | UU-148-F     | 385402-S9   |

\*Grade level

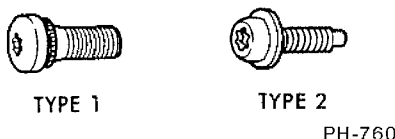
### Metric

| NOMINAL SIZE | A      | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|--------|------|--------------|---------------|
| M4.2         | 20mm   | 1    | AU-55-D      | ★ N803247-S61 |
| M4.2         | 44mm   | 1    | AU-55-J      | N800598-S2    |
| M4.2         | 13mm   | 2    | AU-57-B      | N800396-S2    |
| M4.2         | 16mm   | 2    | AU-57-GC     | N801525-S2    |
| M4.2         | 16mm   | 2    | AU-57-GC     | N801525-S36B  |
| M4.2         | 16mm   | 2    | AU-57-GC     | N801525-S301  |
| M4.2         | 16mm   | 2    | AU-57-DG     | N808453-S301  |
| M4.2         | 16mm   | 2    | AU-57-GD     | W701918-S424  |
| M4.2         | 19mm   | 2    | AU-57-DE     | W705314-S435  |
| M4.2         | 22mm   | 2    | AU-57-C      | ★ N801169-S36 |
| M4.2         | 22mm   | 2    | AU-57-CA     | N801169-S61   |
| M4.2         | 22mm   | 2    | AU-57-C      | N801169-S439  |
| M4.2         | 22mm   | 2    | AU-57-CB     | N805490-S436  |
| M4.8         | 19mm   | 2    | AU-57-GE     | W701799-S58   |
| M6.3         | 16mm   | 2    | AU-57-DF     | N610958-S426  |
| M8           | 20mm   | 2    | AU-57-F      | N801939-S39   |
| M8           | 25mm   | 2    | AU-57-DI     | W707274-S426  |
| M8           | 33mm   | 2    | AU-57-DD     | N806738-S301  |
| M10          | 25mm   | 2    | AU-57-DJ     | W706971-S300  |
| M4.2         | 19mm   | 3    | AU-6-CD      | N800942-S9    |
| M4.2         | 19mm   | 3    | AU-6-CB      | N800942-S55X  |
| M4.2         | 44mm   | 3    | AU-6-CS      | ★ N804592-S58 |
| M4.2         | 25mm   | 3    | AU-148-E     | N801157-S2    |
| M4.2         | 41.3mm | 3    | AU-6-CC      | N808600-S424  |
| M4.8         | 32mm   | 3    | AU-148-AP    | N806996-S58   |
| M10          | 27mm   | 4    | AU-151-F     | N806387-S58   |
| M10          | 58mm   | 4    | AU-151-G     | N806389-S58   |

**PH-756**
**SCREW — TORX**


| DIAMETER | THREAD | LENGTH | TYPE | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|------|--------------|-------------|
| 5/16"    | 24     | 3/4"   | 2    | UU-158-H     | 390880-S100 |
| 3/8"     | 16     | 2-3/4" | 2    | UU-158-S     | 391197-S2   |

| Metric       |      |      |              |                |
|--------------|------|------|--------------|----------------|
| NOMINAL SIZE | A    | TYPE | LOCATOR CODE | PART NUMBER    |
| M4           | 13mm | 1    | AU-92-W      | W706150-S424   |
| M6           | 16mm | 1    | AU-62-AA     | N804621-S2     |
| M8           | 16mm | 1    | AU-62-D      | E802241-S100   |
| M8           | 19mm | 1    | AU-62-E      | N800881-S39    |
| M8           | 55mm | 2    | AB-194-K     | ★ N803539-S437 |

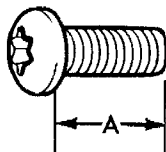
**PH-760**
**SCREW and WASHER — PAN HEAD — TORX**


| Metric       |        |      |              |              |
|--------------|--------|------|--------------|--------------|
| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER  |
| M6           | 24mm   | 1    | AU-92-N      | W701278-S436 |
| M4.2         | 14mm   | 2    | AU-92-E      | N806222-S36  |
| M4.2         | 24mm   | 2    | AU-92-NA     | W701912-S36M |
| M6           | 21.5mm | 2    | AU-92-EA     | W701621-S309 |
| M6           | 21.5mm | 2    | AU-92-EB     | W701621-S437 |
| M8           | 17mm   | 2    | AU-92-M      | W701210-S    |

# Standard and Utility Parts Catalog

PH-761

SCREW — PAN HEAD — TORX



PH-761

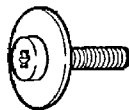
| DIAMETER | THREAD | LENGTH | LOCATOR CODE | PART NUMBER |
|----------|--------|--------|--------------|-------------|
| No. 8    | 18     | 5/8"   | UU-77        | 390345-S36  |
| No. 8    | 18     | 5/8"   | UU-77        | 390345-S437 |

| Metric       |        |          |              |               |
|--------------|--------|----------|--------------|---------------|
| NOMINAL SIZE | A      | MATERIAL | LOCATOR CODE | PART NUMBER   |
| M4           | 16mm   | Plastic  | AU-75-ZY     | W704710-S435  |
| M4           | 16mm   | Plastic  | AU-75-ZY     | W704710-S436  |
| M4           | 16mm   | Plastic  | AU-75-ZY     | W704710-S437  |
| M4.2         | 12.7mm | —        | AU-75-AD     | N806594-S900  |
| M5           | 9.5mm  | Steel    | AU-75-ZW     | W702836-S301  |
| M5           | 12mm   | Steel    | AU-75-ZZ     | W702724-S301  |
| M6           | 12mm   | Steel    | AU-75-ZQ     | W702659-S303  |
| M6           | 12mm   | Steel    | AU-75-ZQ     | W702659-S900  |
| M6           | 14mm   | —        | AU-75-AC     | ★ N806515-S60 |
| M6           | 14mm   | —        | AU-75-AE     | N806515-S435  |
| M6           | 20mm   | Steel    | AU-75-P      | N802996-S36   |
| M6           | 20mm   | Steel    | AU-75-P      | N802996-S437  |
| M6           | 20mm   | Steel    | AU-75-P      | N802996-S1000 |
| M6           | 40mm   | Steel    | AU-75-TE     | N805329-S     |
| M8           | 14mm   | Steel    | AU-75-V      | E804335-S201  |
| M8           | 29mm   | Steel    | AU-75-WF     | N806135-S421  |

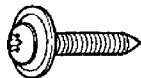
## PH-757 SCREW and WASHER ASSY. — TORX



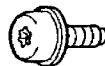
TYPE 1



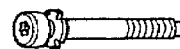
TYPE 2



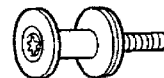
TYPE 3



TYPE 4



TYPE 5



TYPE 6

PH-757

| DIAMETER | THREAD  | A      | TYPE | LOCATOR CODE | PART NUMBER |
|----------|---------|--------|------|--------------|-------------|
| 13/16"   | 3/8-16" | 1-3/8" | 2    | UU-222-B     | 391316-S100 |

### Metric

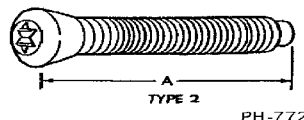
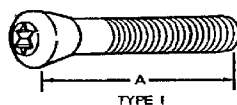
| NOMINAL SIZE | LENGTH | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|--------|------|--------------|---------------|
| M4           | 11mm   | 1    | AU-64-KA     | N805911-S100  |
| M4           | 11mm   | 1    | AU-64-KA     | ★N805911-S424 |
| M4           | 16mm   | 1    | AU-64-JC     | N806634-S36   |
| M4           | 17.6mm | 1    | AU-64-JA     | N805249-S36   |
| M4           | 18mm   | 1    | AU-64-K      | N803090-S7M   |
| M6           | 24.5mm | 1    | AU-64-AH     | N806179-S     |
| M6           | 35mm   | 1    | AU-64-AL     | W708536-S301  |
| M8           | 58mm   | 1    | AU-64-AK     | N811268-S301  |
| M8           | 58mm   | 1    | AU-64-AK     | N811268-S437  |
| M10          | 33mm   | 1    | AU-86-K      | N806390-S58   |
| M6           | 16mm   | 2    | AU-64-LB     | W710225-S437  |
| M4.2         | 9.6mm  | 3    | AU-64-MB     | 56901-S36B    |
| M4.2         | 9.6mm  | 3    | AU-64-MA     | 56901-S100    |
| M4.2         | 19.0mm | 3    | AU-64-R      | N806272-S36B  |
| M8           | 41.7mm | 3    | AU-64-N      | N806697-S58   |
| M8           | 72mm   | 3    | AU-64-P      | N806698-S58   |
| M7.2         | 20mm   | 4    | AU-83-C      | N805837-S56   |
| M6           | 45.3mm | 6    | AU-64-AM     | N807732-S58   |
| M8           | 30.5mm | 6    | AU-64-AN     | N811699-S301  |
| M12          | 106mm  | 6    | AU-64-AP     | ★W709424-S439 |
| M12          | 106mm  | 6    | AU-64-AP     | W709424-S900  |
| M12          | 137mm  | 3    | AU-64-HB     | N806252-S102  |



# Standard and Utility Parts Catalog

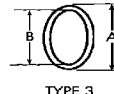
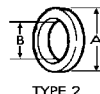
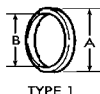
PH-772

SCREW — OVAL HEAD — TORX



| DIAMETER | A      | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|------|--------------|--------------|
| M6       | 25mm   | 1    | AU-86-K      | N808641-S36B |
| M8       | 27mm   | 1    | AU-86-J      | N806680-S39B |
| M8       | 27mm   | 1    | AU-86-J      | N806680-S102 |
| M8       | 27mm   | 1    | AU-86-J      | N806680-S301 |
| M6       | 32.5mm | 2    | AU-87-B      | N804549-S2   |
| M8       | 72mm   | 3    | AU-64-P      | N806698-S58  |

PH-160(A) SEAL — RUBBER “O” RING SEAL



PH160A

| A        | B       | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER                 |
|----------|---------|----------|------|--------------|-----------------------------|
| 15/32"   | 9/16"   | Plastic  | 1    | TT-40-E      | 388897-S                    |
| 11/16"   | 43/64"  |          | 1    | TT-40-EG     | 391356-S100                 |
| 39/64"   | 33/64"  | Plastic  | 1    | TT-40-G      | 388898-S                    |
| 2-1/2"   | 2-3/8"  | Rubber   | 1    | TT-40-EJ     | 87072-S91                   |
| 3/8"     | 1/4"    | Rubber   | 2    | TT-40-C      | 388748-S                    |
| 7/16"    | 5/16"   | Rubber   | 2    | TT-53-E      | 380976-S                    |
| 7/16"    | 19/64"  | Rubber   | 2    | TT-40-D      | 388749-S                    |
| 15/32"   | 23/64"  | Rubber   | 2    | TT-40-EA     | 379737-S                    |
| 15/32"   | 13/32"  | Rubber   | 2    | TT-50-GK     | 391397-S100<br>(YF-1788)    |
| 29/64"   | 5/16"   | Rubber   | 2    | TT-50-C      | 390846-S96                  |
| 1-1/4"   | 63/64"  | Rubber   | 2    | TT-50-GM     | 391533-S100                 |
| 7/16"    | 37/64"  | Rubber   | 2    | TT-50-G      | 390847-S96                  |
| 9/16"    | 1/2"    | Rubber   | 2    | TT-50-GD     | 391304-S100<br>(YF-1755)*   |
| 11/16"   | 5/8"    | Rubber   | 2    | TT-40-AB     | ★ 391305-S100<br>(YF-1752)* |
| 5/8"     | 35/64"  | Rubber   | 2    | TT-50-GG     | ★ 391306-S100<br>(YF-1756)* |
| 43/64"   | 15/32"  | Rubber   | 2    | TT-50-GQ     | 391616-S100                 |
| 43/64"   | 15/32"  | Rubber   | 2    | TT-50-GR     | 391702-S100                 |
| 1"       | 3/4"    | Rubber   | 2    | TT-50-GN     | 390697-S                    |
| 1-3/64"  | 3/4"    | Rubber   | 2    | TT-50-F      | ★ 389349-SMR                |
| 29/64"   | 3-1/4"  | Rubber   | 2    | TT-50-A      | 379275-S94                  |
| 3/4"     | 11/16"  | Rubber   | 3    | TT-51-E      | 380979-S                    |
| 1-17/64" | 1-3/64" | Rubber   | 3    | TT-51        | 391552-S                    |
| 6-7/64"  | 6"      | Rubber   | 3    | TT-51-R      | 390155-S95                  |

\* Motorcraft Number

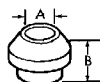
(continued)

## PH-160-A SEAL — RUBBER “O” RING SEAL (Cont’d)

| Metric   |          |          |      |              |                          |
|----------|----------|----------|------|--------------|--------------------------|
| A        | B        | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER              |
| 10.9mm   | 8.87mm   | Rubber   | 1    | AT-1-AD      | ★E701686-S300            |
| 11.3mm   | 9.25mm   | Rubber   | 1    | AT-1-AA      | ★E701424-S300            |
| 11.8mm   | 7.64mm   | Rubber   | 1    | AT-1-U       | ★E854082-S               |
| 12.1mm   | 1.65mm   | Plastic  | 1    | AT-1-A       | ★N802907-S               |
| 12.1mm   | 1.65mm   | Plastic  | 1    | AT-1-A       | N802907-SMR              |
| 12.5mm   | 1.85mm   | Rubber   | 1    | AT-1-Z       | N808548-S                |
| 17.6mm   | 15.67mm  | Rubber   | 1    | AT-1-MM      | ★W702560-S300            |
| 20mm     | 16mm     | Steel    | 1    | AT-1-N       | ★E830153-S               |
| 20.56mm  | 16.56mm  | Rubber   | 1    | AT-1-L       | ★117873-ES               |
| 21.9mm   | 18.2mm   | Steel    | 1    | AT-1-H       | ★E853109-S               |
| 25.53mm  | 18.72mm  | Steel    | 1    | AT-1-V       | ★E854075-S82             |
| 31.6mm   | 30mm     | Rubber   | 1    | AT-1-E       | ★E453000-S               |
| 82mm     | 79mm     | Rubber   | 1    | AT-1-J       | ★E854050-S               |
| 84.6mm   | 77mm     | Rubber   | 1    | AT-2-E       | ★N801011-S               |
| 107.38mm | 101.98mm | Rubber   | 1    | AT-2-F       | N805339-S                |
| 111.47mm | 106.0mm  | Rubber   | 1    | AT-2-G       | ★N801062-S               |
| —        | 5.8mm    | —        | 2    | AT-1-Z       | N811064-S                |
| —        | 13.05mm  | Rubber   | 2    | AT-1-JA      | W706258-S100             |
| 6.07mm   | 3.60mm   | Rubber   | 2    | AT-1-C       | ★N802928-S               |
| 6.3mm    | 6.3mm    | Rubber   | 2    | AT-1-Z       | ★N804071-S               |
| 8mm      | 7.6mm    | Rubber   | 2    | AT-1-X       | N803257-S                |
| 9.5mm    | 6.5mm    | Rubber   | 2    | AT-1-W       | E853169-S                |
| 9.60mm   | 6mm      | Rubber   | 2    | AT-1-AA      | N803256-S                |
| 10.89mm  | 7.64mm   | Rubber   | 2    | AT-1-G       | ★N801547-S               |
| 13.07mm  | 9.25mm   | Rubber   | 2    | AT-2-B       | ★N807114-S               |
| 13.07mm  | 9.14mm   | Rubber   | 2    | AT-1-AC      | N808861-S                |
| 14mm     | 9mm      | Rubber   | 2    | AT-1-P       | ★N802277-S               |
| 16.0mm   | 12.45mm  | Rubber   | 2    | AT-1-AE      | N808863-S                |
| 16mm     | 13mm     | Rubber   | 2    | AT-1-K       | ★N801394-S               |
| 16.12mm  | 11.94mm  | Rubber   | 2    | AT-1-AF      | N808862-S                |
| 21.17mm  | 16.26mm  | Rubber   | 2    | AT-1-AD      | N808864-S                |
| 22.36mm  | 17.12mm  | Rubber   | 2    | AT-1-D       | N802927-S                |
| 22.37mm  | 17.13mm  |          | 2    | AT-1-AB      | ★E453205-S               |
| 24.13mm  | 20.5mm   | Rubber   | 2    | AT-1-DA      | ★N805340-S<br>(YF-1593)* |
| 24.89mm  | 19.95mm  | Rubber   | 2    | AT-1-R       | N801189-S                |
| 25.4mm   | 22mm     | Rubber   | 2    | AT-1-M       | ★N800679-S               |
| 27.6mm   | 25mm     | Rubber   | 2    | AT-1-B       | ★N800635-S               |
| 28.53mm  | 25mm     | Rubber   | 2    | AT-4-1       | N806921-S                |
| 30mm     | 26.6mm   | Rubber   | 2    | AT-1-T       | ★E853103-S               |
| 31.6mm   | 23.35mm  | Rubber   | 2    | AT-1-S       | N803917-S                |
| 69.80mm  | 65.67mm  | Rubber   | 2    | AT-1-F       | N803201-S                |
| 8.8mm    | 6.9mm    | Rubber   | 3    | AT-3-B       | N805269-S                |
| 10.7mm   | 6.88mm   | Rubber   | 3    | AT-3-C       | W705818-S300             |
| 16.48mm  | 15.21mm  | —        | 3    | AT-3-F       | N806316-S                |
| 17.56mm  | 14mm     | Rubber   | 3    | AT-3-D       | N805862-S                |
| 19mm     | 15.6mm   | Rubber   | 3    | AT-3-E       | E853173-S                |
| 32mm     | 26.5mm   | Rubber   | 3    | AT-3-P       | ★E853188-S               |
| 82mm     | 79mm     | Rubber   | 3    | AT-3-AA      | W702969-S300             |

## PH-224

## SEAT — TUBE



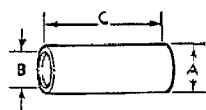
TYPE 2

PH224

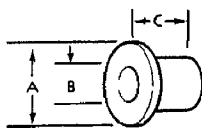
| DIAMETER | A      | B      | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|--------|----------|------|--------------|--------------|
| 1/4"     | 3/8"   | 5/16"  | Aluminum | 2    | TT-3         | ★372895-S    |
| 5/16"    | 1/4"   | 21/64" | Aluminum | 2    | TT-5         | ★373430-S    |
| 23/64"   | 1/4"   | 21/64" | Steel    | 2    | TT-8-E       | ★390081-S2   |
| 23/64"   | 1/4"   | 21/64" | Steel    | 2    | TT-8-F       | ★390081-S100 |
| 5/16"    | 5/16"  |        | Steel    | 2    | TT-9-CC      | ★388922-S100 |
| 3/8"     | 9/32"  | 3/8"   | Brass    | 2    | TT-7-A       | 374480-S     |
| 3/8"     | 11/32" | 3/8"   | Aluminum | 2    | TT-6         | ★372896-S    |
| 3/8"     | 15/32" | 3/8"   | Steel    | 2    | TT-9-DD      | ★388821-S100 |
| 7/16"    | 9/32"  | 5/16"  | Brass    | 2    | TT-5-A       | 374309-S     |

## PH-157

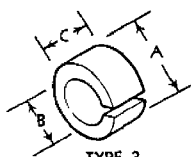
## SPACER



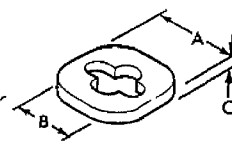
TYPE 1



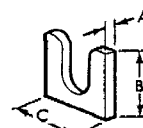
TYPE 2



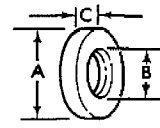
TYPE 3



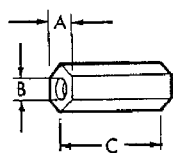
TYPE 4



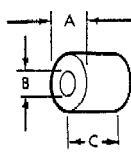
TYPE 5



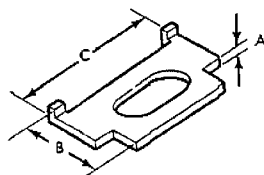
TYPE 6



TYPE 7



TYPE 8



TYPE 9

PH-157

| A      | B      | C        | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER  |
|--------|--------|----------|----------|------|--------------|--------------|
| 11/32" | 7/32"  | 3/16"    | Steel    | 1    | VV-1-A       | ★380555-S    |
| 9/16"  | 3/8"   | 1-1/4"   | Steel    | 1    | VV-1-C       | ★389796-S    |
| 5/8"   | 5/32"  | 21/64"   | Rubber   | 1    | VV-1-AL      | ★387461-S    |
| 5/8"   | 3/8"   | 2-7/32"  | Steel    | 1    | VV-2-EE      | ★386111-S    |
| 5/8"   | 3/8"   | 2-9/16"  | Steel    | 1    | VV-2-EJ      | ★386228-S    |
| 5/8"   | 7/16"  | 2-17/64" | Steel    | 1    | VV-6         | ★387269-S2   |
| 5/8"   | 7/16"  | 3-19/64" | Steel    | 1    | VV-7         | ★387259-S2   |
| 3/4"   | 3/8"   | 1"       | Aluminum | 1    | VV-8         | ★388404-S    |
| 3/4"   | 29/64" | 1-1/8"   | Steel    | 1    | VV-8-A       | 389534-S2    |
| 3/4"   | 1/2"   | 5/8"     | Nylon    | 1    | VV-2-D       | ★385626-S    |
| 13/16" | 31/64" | 1-1/16"  | Steel    | 1    | VV-2-H       | ★388640-S2   |
| 7/8"   | 19/32" | 7/16"    | Steel    | 1    | VV-2-F       | ★386905-S    |
| 7/8"   | 13/32" | 5/8"     | Steel    | 1    | VV-2-C       | ★387302-S2   |
| 7/8"   | 13/32" | 3-1/8"   | Aluminum | 1    | VV-2-M       | ★387825-S    |
| 7/8"   | 7/16"  | 1-15/16" | Steel    | 1    | VV-1-AA      | ★385774-S2   |
| 7/8"   | 5/8"   | 3/4"     | Nylon    | 1    | VV-2-CE      | ★386993-S    |
| 7/8"   | 5/8"   | 1-7/8"   | Steel    | 1    | VV-2-G       | ★385235-S    |
| 1"     | 15/32" | 5/16"    | Aluminum | 1    | VV-1-AD      | ★388751-S    |
| 1"     | 15/32" | 1-1/4"   | Aluminum | 1    | VV-5-E       | ★388763-S    |
| 9/16"  | 15/64" | 5/16"    | Rubber   | 2    | VV-3         | ★352423-S    |
| 3/4"   | 1/2"   | 9/16"    | Steel    | 3    | VV-9-E       | ★387102-S    |
| 1"     | 7/16"  | 4-51/64" | Aluminum | 3    | VV-9-C       | ★386107-S    |
| 1"     | 1/2"   | 11/64"   | Aluminum | 3    | VV-9-D       | ★389835-S    |
| 1"     | 7/16"  | 25/64"   | Aluminum | 3    | VV-9         | ★390337-S    |
| 1"     | 29/64" | 5-3/8"   | Aluminum | 3    | VV-9-G       | ★390046-S100 |

# Standard and Utility Parts Catalog

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PH-157

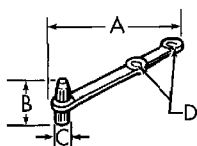
SPACER (Cont'd)

| A     | B      | C        | MATERIAL | TYPE | LOCATOR CODE | PART NUMBER |
|-------|--------|----------|----------|------|--------------|-------------|
| 1"    | 29/64" | 5-9/16"  | Aluminum | 3    | VV-9-H       | ★ 389820-S  |
| 1"    | 15/32" | 1-1/4"   | Aluminum | 3    | VV-9-F       | ★ 389798-S  |
| 1/8"  | 1-1/8" | 1-19/64" | Fiber    | 5    | VV-11        | ★ 386364-S  |
| 9/16" | 23/64" | 7/64"    | Rubber   | 6    | W-1          | 391635-S    |
| 1/4"  | 1/8"   | 17/64"   | Steel    | 8    | AV-34-D      | N807217-S2  |
| 1"    | 1/4"   | 1-1/2"   | Aluminum | 8    | AV-34-F      | 386221-S    |

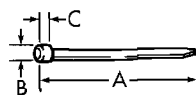
| Metric  |         |         |          |   |          |                |
|---------|---------|---------|----------|---|----------|----------------|
| M7      | 5mm     | 6mm     | Steel    | 1 | AV-32-E  | ★ N801543-S35  |
| M8.6    | 5.4mm   | 7mm     | Rubber   | 1 | AV-10    | ★ E834054-S    |
| M12.6   | 8.20mm  | 38.0mm  | Steel    | 1 | AV-25-G  | ★ N800206-S100 |
| M13     | 8.25mm  | 83.2mm  | Steel    | 1 | AV-25-F  | N800197-S2     |
| M13     | 9mm     | 25mm    |          | 1 | AV-25-L  | ★ E830272-S71  |
| M19     | 11.2mm  | 15mm    | Steel    | 1 | AV-25-SC | N800878-S      |
| M19     | 13mm    | 6mm     |          | 1 | AV-25-R  | ★ U800963-S71  |
| M19     | 13mm    | 12mm    |          | 1 | AV-25-S  | ★ U800953-S71  |
| M19     | 13mm    | 20mm    | Steel    | 1 | AV-25-T  | ★ U801104-S72  |
| M19     | 13mm    | 33mm    | Steel    | 1 | AV-25-J  | ★ N800573-S    |
| M20     | 10mm    | 47mm    | Aluminum | 1 | AV-25-E  | ★ N804188-S    |
| M22     | 16mm    | 16mm    | Steel    | 1 | AV-25-M  | ★ N803240-S100 |
| M22     | 16.4mm  | 22.95mm | Steel    | 1 | AV-25-H  | ★ N801540-S100 |
| M22.3   | 16.1mm  | 22.5mm  | Plastic  | 1 | AV-25-C  | E834082-S      |
| M22.3   | 16.1mm  | 40mm    | Plastic  | 1 | AV-25-K  | ★ E834090-S    |
| M22.3   | 16.1mm  | 42mm    | Plastic  | 1 | AV-25-N  | ★ E834087-S    |
| M28     | 20mm    | 12.5mm  | Aluminum | 1 | VV-2-CG  | ★ 388331-S100  |
| M32     | 23mm    | 8mm     |          | 1 | AV-25-P  | ★ N804264-S2   |
| M40     | 22mm    | 14mm    | Steel    | 1 | AV-25-A  | ★ N802177-S2   |
| M40     | 22mm    | 21mm    | Steel    | 1 | AV-25-B  | N802160-S2     |
| M54     | 21mm    | 90mm    | Rubber   | 1 | AV-29    | ★ N802309-S    |
| 60mm    | 11mm    | 10.8mm  | Steel    | 1 | AV-25-D  | ★ N804000-S    |
| M20     | 20mm    | 7.5mm   |          | 2 | AV-24-C  | ★ U800900-S    |
| 22.5mm  | 8.0mm   | 8.0mm   | Rubber   | 2 | AV-24-CA | W707737-S      |
| M61     | 14mm    | 25mm    | Steel    | 2 | AV-24-A  | ★ N802529-S36  |
| M66     | 19mm    | 48mm    | Steel    | 2 | AV-24    | ★ N802528-S36  |
| M70.6   | 19.25mm | 74.2mm  | Steel    | 2 | AV-24-B  | ★ N802881-S2   |
| M13     | 11.4mm  | 116.5mm | Steel    | 3 | AV-25    | ★ N800264-S2   |
| M17.4   | 12.8mm  | 3.4mm   | Vinyl    | 3 | AV-26    | ★ N801708-S    |
| M25.4   | 12.9mm  | 6.5mm   | Aluminum | 3 | AV-27-B  | ★ N802546-S    |
| M56     | 38mm    | 5mm     | Steel    | 4 | AV-30-E  | N800788-S2     |
| 1.5mm   | 29mm    | 31mm    |          | 5 | W-11-AA  | W708378-S900   |
| 30mm    | 14mm    | 3.75mm  | Steel    | 6 | AV-31    | W708774-S440   |
| 17mm    | M8      | 37.9mm  | Steel    | 7 | AV-34    | ★ N806180-S    |
| 17mm    | M8      | 37.9mm  | Steel    | 7 | AV-34-B  | N806180-S2     |
| M8      | 9.4mm   | 25.5mm  | Steel    | 7 | AV-34-E  | N811280-S      |
| 10.53mm | 8.5mm   | 15mm    | Steel    | 8 | AV-34-G  | W703427-S300   |
| M1.0    | 27.0mm  | 68mm    | Steel    | 9 | AV-34-C  | ★ N807711-S36  |
| M2.0    | 27.0mm  | 68mm    | Steel    | 9 | AV-34-A  | ★ N807708-S36  |

# Standard and Utility Parts Catalog

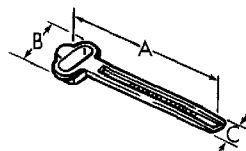
## PH-161 STRAP — ADJUSTABLE — NYLON



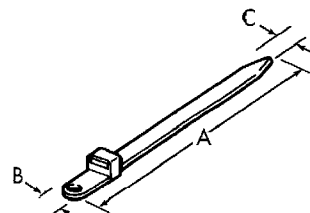
TYPE 1



TYPE 2



TYPE 3



TYPE 4

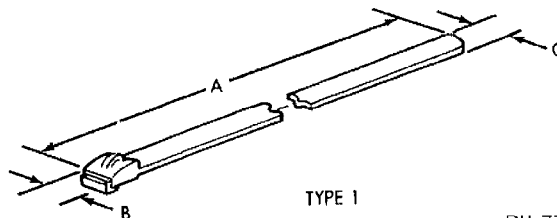
PH161

| A         | B      | C      | D      | TYPE | LOCATOR CODE | PART NUMBER |
|-----------|--------|--------|--------|------|--------------|-------------|
| 3-7/64"   | 27/32" | 17/64" | 15/64" | 1    | YY-2         | 376914-S    |
| 5"        | 27/32" | 17/64" | 15/64" | 1    | YY-3         | 376876-S    |
| 14-13/16" | 15/32" | 1/4"   |        | 2    | YY-7-E       | 384213-S    |
| 7-3/8"    | 13/32" | 3/16"  |        | 4    | YY-4-G       | 382987-S    |

### Metric

|          |        |         |        |   |        |              |
|----------|--------|---------|--------|---|--------|--------------|
| 209.52mm | 7.44mm | 13.49mm | Nylon  | 2 | AY-1   | N802862-S    |
| 14.93mm  | .545mm | .435mm  | —      | 2 | AY-1-A | 391958-S300  |
| 133mm    | 14.0mm | 5.0mm   | Nylon  | 3 | AY-2   | W710429-S300 |
| 85.5mm   | 7.5mm  | 4.0mm   | 11.2mm | 5 | AY-10  | W701089-S300 |

## PH-773 STRAP — ADJUSTABLE — METAL



TYPE 1

PH-773

### Metric

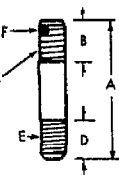
| A     | B     | C   | D | TYPE | LOCATOR CODE | PART NUMBER |
|-------|-------|-----|---|------|--------------|-------------|
| 200mm | 9.5mm | 8mm |   | 1    | AY-5         | ★ N804391-S |

PH-179

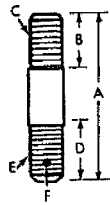
STUD CHART



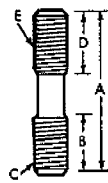
TYPE 1



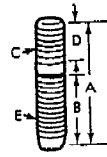
TYPE 2



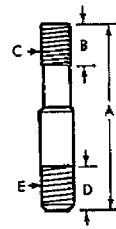
TYPE 3



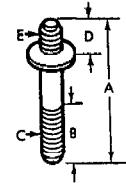
TYPE 4



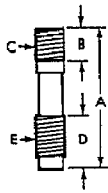
TYPE 5



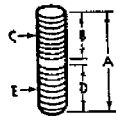
TYPE 7



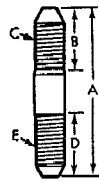
TYPE 8



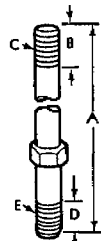
TYPE 10



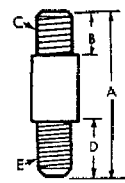
TYPE 12



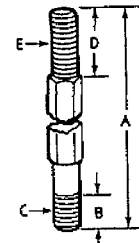
TYPE 13



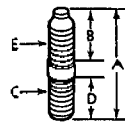
TYPE 14



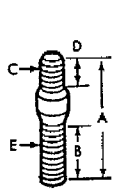
TYPE 15



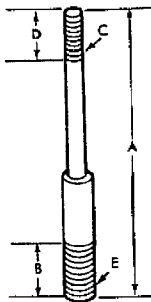
TYPE 16



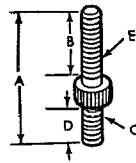
TYPE 17



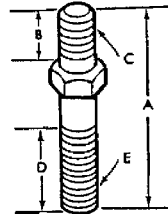
TYPE 18



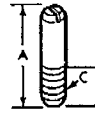
TYPE 19



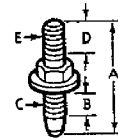
TYPE 22



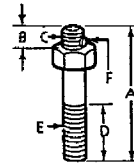
TYPE 23



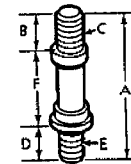
TYPE 25



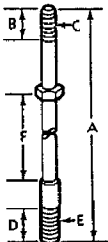
TYPE 28



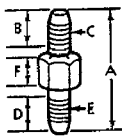
TYPE 29



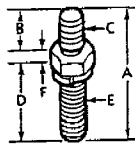
TYPE 30



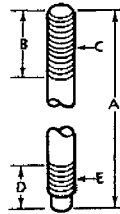
TYPE 31



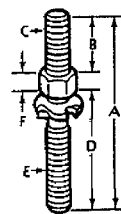
TYPE 32



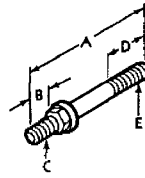
TYPE 34



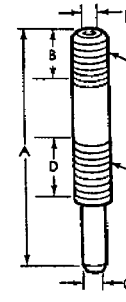
TYPE 36



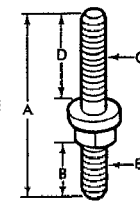
TYPE 37



TYPE 38



TYPE 39

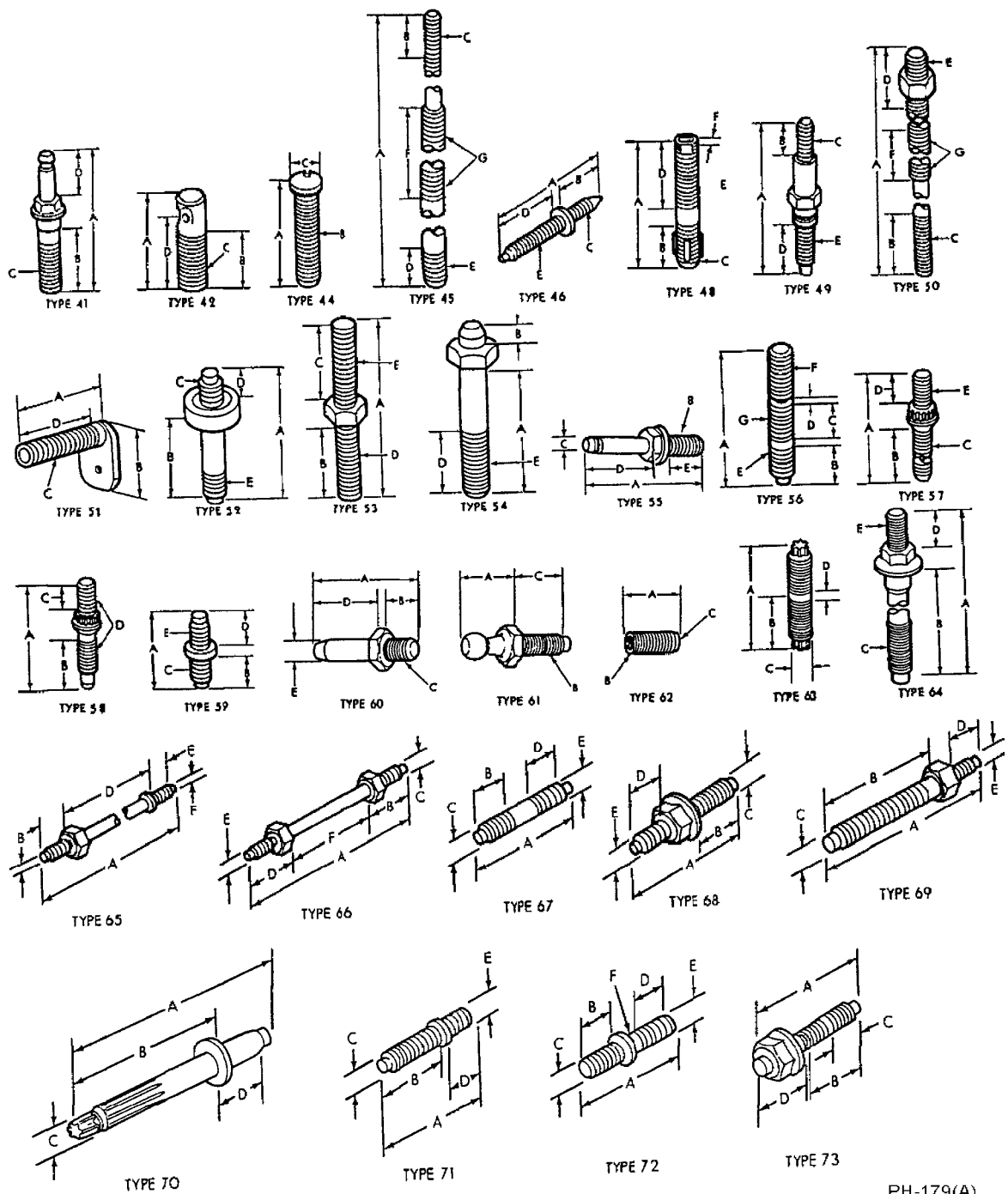


TYPE 40

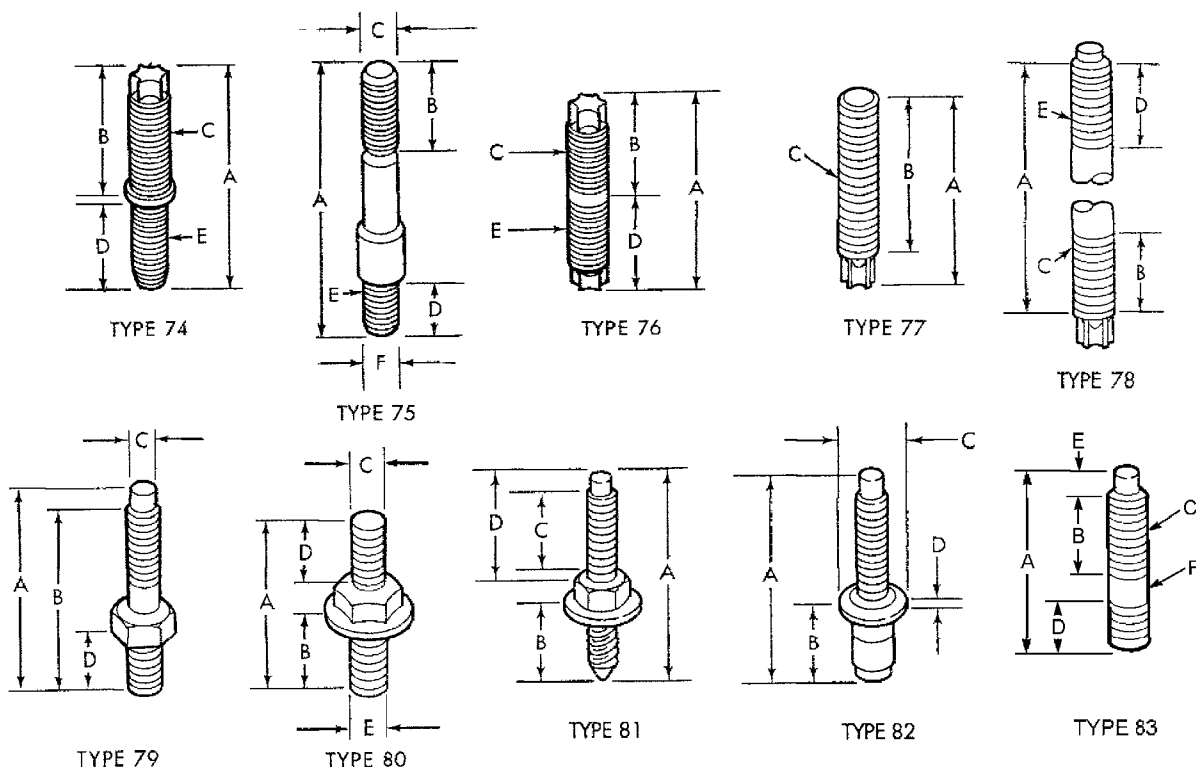
PH-179

(continued)

## PH-179(A) STUD CHART (Cont'd)



## PH-179(B) STUD CHART (Cont'd)



PH-179(B)  
1/14/1999

| A        | B       | C        | D       | E         | F      | G | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|---------|----------|---------|-----------|--------|---|------|--------------|--------------|
| 1-1/2"   | 11/16"  | 5/16"-18 | 11/16"  | 5/16"-18  |        |   | 2    | WW-31-A      | 387294-S     |
| 1-37/64" | 11/16"  | 3/8"-16  | 11/16"  | 3/8"-16   |        |   | 2    | WW-34-C      | 388112-S     |
| 1-15/16" | 1/2"    | 5/16"-18 | 11/16"  | 5/16"-24  |        |   | 2    | WW-14-B      | 382137-S     |
| 2-3/16"  | 11/16"  | 7/16"-14 | 1"      | 7/16"-14  |        |   | 2    | WW-66-A      | 376699-S2    |
| 2-1/4"   | 5/8"    | 3/8"-16  | 1-1/4"  | 3/8"-24   |        |   | 2    | WW-33-B      | ★380272-S7-8 |
| 2-1/4"   | 1-3/8"  | 7/16"-14 | 11/16"  | 7/16"-14  |        |   | 2    | WW-45-M      | 380345-S100  |
| 2-3/8"   | 1-3/64" | 7/16"-14 | 21/32"  | 7/16"-14  |        |   | 2    | WW-46-A      | 378921-S2    |
| 2-1/2"   | 5/8"    | 7/16"-14 | 1-9/16" | 7/16"-20  |        |   | 2    | WW-47        | 353409-S     |
| 2-3/4"   | 1/2"    | 5/16"-18 | 15/16"  | 5/16"-24  |        |   | 2    | WW-14-CD     | ★376064-S8   |
| 3-49/64" | 23/32"  | 5/16"-18 | 51/64"  | 5/16"-18  |        |   | 2    | WW-8-B       | 390447-S8    |
| 6-11/32" | 1-7/64" | 7/16"-14 | 1-7/64" | 7/16"-14  |        |   | 2    | WW-50-H      | 389716-S2    |
| 2-15/32" | 25/32"  | 9/16"-12 | 3/4"    | 9/16"-18  | 9/64"  |   | 3    | WW-73-B      | ★376197-S    |
| 2-5/16"  | 5/8"    | 13"      | 3/4"    | 20"       |        |   | 3    | WW-73-F      | 88459-S2     |
| 1-3/4"   | 1/2"    | 1/2"-13  | 3/4"    | 1/2"-13   | —      | — | 12   | WW-91-AA     | 378475-S     |
| 2-1/16"  | 19/32"  | 7/16"-14 | 27/32"  | 7/16"-14  |        |   | 23   | WW-98-AH     | 388718-S2    |
| 3-1/16"  | 1-1/4"  | 1/4"-20  | 9/16"   | 1/4"-20   |        |   | 23   | WW-97-AF     | 389301-S2    |
| 3-1/8"   | 1-1/8"  | 3/8"-16  | 15/16"  | 3/8"-16   | —      | — | 23   | WW-98-HD     | 388690-S427  |
| 3-1/8"   | 5/8"    | 7/16"-14 | 1-3/8"  | 7/16"-14  |        |   | 23   | WW-98-GA     | ★390112-S2   |
| 3-3/4"   | 5/16"   | 1/4"-20  | 1-1/4"  | 1/4"-20   |        |   | 23   | WW-98-AU     | 382577-S100  |
| 3-13/16" | 1"      | 3/8"-16  | 3/4"    | 3/8"-16   |        |   | 23   | WW-98-AT     | 390698-S2    |
| 2-7/64"  | 1-1/8"  | 3/8"-16  | 3/4"    | 3/8"-16   |        |   | 28   | WW-122-G     | 389411-S2    |
| 3-1/2"   | 1-5/32" | 3/8"-16  | 3/4"    | 5/16"-18  |        |   | 29   | WW-123-KJ    | 388432-S2    |
| 3-1/2"   | 1-5/32" | 3/8"-16  | 3/4"    | 5/16"-18  |        |   | 29   | WW-123-KM    | 391559-S2    |
| 4-5/16"  | 1-1/4"  | 3/8"-16  | 3/4"    | 5/16"-18  |        |   | 29   | WW-133-HA    | 389315-S     |
| 5-13/32" | 1-9/32" | 3/8"-16  | 3/4"    | 5/16"-18  |        |   | 29   | WW-123-KK    | 388433-S2    |
| 6-5/8"   | 1-9/32" | 3/8"-16  | 3/4"    | 5/16"-18  |        |   | 29   | WW-123-KL    | 388434-S2    |
| 2-3/16"  | 7/8"    | 3/8"-16  | 1"      | 7/16"-14  | 5/16"  |   | 34   | WW-128-AA    | 390979-S100  |
| 2-1/2"   | 1-5/8"  | 3/8"-16  | 1/16"   | 3/8"-16   | 7/32"  |   | 34   | WW-122-K     | 391214-S36   |
| 4-7/32"  | 3/4"    | 5/16"-18 | 1-7/64" | 15/16"-18 |        |   | 36   | WW-149-D     | 390788-S8    |
| 1-7/8"   | 5/8"    | 5/16"-18 | 1"      | 5/16"-18  | 15/64" |   | 37   | WW-132-BD    | 388377-S2    |
| 3-13/32" | 1"      | 3/8"-16  | 2-1/4"  | 3/8"-16   | 1/4"   |   | 37   | WW-132-BC    | 388469-S     |
| 1-13/16" | 5/8"    | 5/16"-18 | 7/8"    | 5/16"-18  |        |   | 40   | WW-135-AC    | 391079-S     |

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| A        | B        | C        | D        | E         | F | G | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|----------|----------|----------|-----------|---|---|------|--------------|---------------|
| 1-13/16" | 5/8"     | 5/16"-18 | 7/8"     | 5/16"-18  | — | — | 40   | WW-135-AC    | 391079-S2     |
| 2-1/8"   | 3/4"     | 1/2"-13  | 3/4"     | 3/8"-16   |   |   | 40   | WW-135-AA    | 389659-S36    |
| 2-21/32" | 13/32"   | 3/8"-16  | 1-3/4"   | 3/8"-16   |   |   | 40   | WW-135-D     | 390529-S2     |
| 3-1/32"  | 13/16"   | 5/16"-18 | 7/8"     | 5/16"-18  |   |   | 40   | WW-135-AN    | 388552-S8     |
| 3-5/16"  | 13/16"   | 5/16"-18 | 7/8"     | 5/16"-18  |   |   | 40   | WW-135-C     | 388551-S2     |
| 3-31/64" | 45/64"   | 5/16"-18 | 2-1/2"   | 5/16"-18  |   |   | 40   | WW-135-J     | 390681-S2     |
| 4-7/8"   | 1/2"     | 5/16"-18 | 4-1/8"   | 3/8"-16   | — | — | 40   | WW-135-HD    | ★391190-S36   |
| 5"       | 13/16"   | 5/16"-18 | 3-15/16" | 5/16"-18  |   |   | 40   | WW-135-AC    | 391019-S2     |
| 1-15/16" | 21/32"   | 1/4"-20  | 15/16"   |           |   |   | 41   | WW-158-B     | 390822-S2     |
| 1-15/16" | 5/8"     | 3/8"-16  | 5/8"     | 7/16"-14  |   |   | 53   | WW-155-A     | 390158-S36    |
| 4-7/64"  | 2-13/16" | 1-5/16"  | 5/16"    | 3/8"      |   |   | 53   | WW-155-P     | 389315-S      |
| 4-13/16" | 2-1/2"   | 5/8"-11  | 1-53/64" | 3/4"-10   |   |   | 53   | WW-155-B     | 390678-S100   |
| 1-13/16" | 9/16"    | 1/4"-20  | 31/32"   | 3/16"     |   |   | 55   | WW-160-F     | 387883-S8M    |
| 1-13/16" | 13/16"   | 1/4"-20  | 1/2"     | 1/4"-20   |   |   | 64   | WW-161-AA    | 390692-S2     |
| 2-1/2"   | 1-1/2"   | 5/16"-18 | 1/2"     | 5/16"-18  |   |   | 64   | WW-161       | 390715-S2     |
| 2-5/8"   | 1-5/8"   | 5/16"-18 | 1/2"     | 5/16"-18  |   |   | 64   | WW-161-C     | 390589-S8     |
| 3"       | 2"       | 5/16"-18 | 11/16"   | 5/16"-18  |   |   | 64   | WW-161-F     | 389199-S36    |
| 2-1/8"   | 51/64"   | 5/16"-18 | 51/64"   | 5/16"-18  |   |   | 67   | WW-162       | 390591-S8     |
| 1-11/32" | 5/8"     | 1/4"-20  | 3/8"     | 1/4"-20   |   |   | 68   | WW-163-E     | 390821-S2     |
| 2"       | 5/8"     | 1/4"-20  | 1"       | 1/4"-20   |   |   | 68   | WW-163-H     | 391009-S2     |
| 2-3/4"   | 2-1/4"   | 9/32"    | 1/2"     | 9/32"     |   |   | 68   | WW-163-K     | 386197-S      |
| 2-7/8"   | 1-3/4"   | 3/8"-16  | 3/4"     | 3/8"-16   |   |   | 68   | WW-163-J     | 391845-S101   |
| 2-35/64" | 2-5/16"  | 5/16"    | 41/64"   |           |   |   | 79   | 040-230      | 391104-S2     |
| 2-19/64" | 5/16"    | 21/64"   | 41/64"   | 7/16"     |   |   | 79   | WW-165       | ★389112-S2    |
| 3"       | 7/64"    | 5/16"-18 | 11/16"   |           |   |   | 79   | WW-49-X      | 391444-S36    |
| 1.91     | .875     | —        | .265     | —         | — | — | 80   | WW-49-Y      | 391510-S100   |
| Metric   |          |          |          |           |   |   |      |              |               |
| 91.5mm   | —        | M8       | —        | —         | — | — | 1    | AW-58        | W709477-S437  |
| 62mm     | 17mm     | M10      | 34mm     | M10       |   |   | 2    | AW-30-A      | ★N802521-S2   |
| 135.5mm  | 13.2mm   | M8       | 16.5mm   | M8        |   |   | 2    | AW-30-KF     | N805275-S2    |
| 32mm     | 20.5mm   | M6       | 8mm      | M6        | — | — | 5    | AW-31        | W808764-S431  |
| 32mm     | 20.5mm   | M6       | 8mm      | M6        | — | — | 5    | AW-31        | ★W808764-S439 |
| 71.5mm   | 48.3mm   | M12      | 16.2mm   | M12       |   |   | 5    | AW-103-C     | N808911-S301  |
| 32mm     | 8.7mm    |          | 30mm     | M6        |   |   | 8    | 040-020      | W705404-S309  |
| 71.3mm   | 46.5mm   | M8       | 16mm     | M6        |   |   | 8    | AW-12        | N804225-S2    |
| 78.0mm   | 40mm     | M6       | 6.3mm    | M4.51     | — | — | 8    | AW-12-A      | W710464-S437  |
| 99mm     | 28mm     | M10      | 10mm     | M8        | — | — | 8    | AW-12-B      | W710133-S439  |
| 170.6mm  | 40mm     | M8       | 23.0mm   | M8        | — | — | 8    | AW-12-A      | W705707-S437  |
| 57.3mm   | 22mm     | M10      | 28mm     | M10       |   |   | 10   | AW-43-P      | W702436-S309  |
| 64mm     | 18mm     | M12      | 28mm     | 7/16"-14  |   |   | 10   | AW-36        | N800064-S2    |
| 42mm     | 16mm     | M8       | 21mm     | M8        |   |   | 12   | AW-37-E      | N801065-S2    |
| 45.5mm   | 15.5mm   | M6       | —        | M6        | — | — | 12   | AW-37-F      | W701602-S437  |
| 50mm     | 19mm     | M8       | 21mm     | M8 x 1.25 |   |   | 12   | AW-37-G      | ★N800604-S100 |
| 52mm     | 12mm     | M10      | 35mm     | M10       |   |   | 12   | AW-40        | E804203-S100  |
| 62mm     | 17mm     | M10      | 41mm     | M10       |   |   | 12   | AW-37-P      | N802725-S2    |
| 65mm     | 20mm     | M12      | 35mm     | M12       |   |   | 12   | AW-36-G      | N807763-S43B  |
| 121.5mm  | 24.5mm   | M10      | 22.5mm   | M10       | — | — | 13   | AW-72-E      | W710416-S440  |
| 128.2mm  | 24mm     | M8       | 17mm     | M8        |   |   | 13   | AW-72-F      | ★W708036-S309 |
| 140.6mm  | 22.0mm   | M12      | 21.7mm   | M12       | — | — | 13   | AW-72-G      | W709148-S301  |
| 96mm     | 35mm     | —        | 30.0mm   | —         | — | — | 14   | AW-43-A      | N808529-S309  |
| 96mm     | 35mm     | —        | 30.0mm   | —         | — | — | 14   | AW-43-A      | N808529-S431  |
| 96mm     | 35mm     | —        | 30.0mm   | —         | — | — | 14   | AW-43-A      | N808529-S437  |
| 150.6mm  | 42.6mm   | M14      | 48.6mm   | M14       | — | — | 15   | AW-27-A      | W707538-S439  |
| 48mm     | 22mm     | M10      | 22mm     | M12       |   |   | 16   | AW-43-AA     | ★W702864-S309 |
| 37.3mm   | 20.3mm   | M8       | 13.4mm   | M8        |   |   | 17   | AW-43-CB     | W702827-S309  |
| 41mm     | 25mm     | M8       | 16mm     | M8        | — | — | 17   | AW-43-E      | W702143-S309  |
| 43mm     | 15mm     | M6       | 25mm     | M6        | — | — | 17   | AW-43-CC     | W701860-S309  |
| 43mm     | 15mm     | M6       | 25mm     | M6        | — | — | 17   | AW-43-CD     | W701860-S437  |
| 50mm     | —        | M8       | —        | M8        |   |   | 17   | AW-43-L      | N802906-S2    |
| 51mm     | 27.75mm  | M10      | 24.25mm  | M10       |   |   | 17   | AW-43-M      | N801366-S411  |
| 52.2mm   | 21.9mm   | M8       | 19.0mm   | M8        |   |   | 17   | AW-43-U      | N811313-S431  |
| 57.2mm   | 21.9mm   | M8       | 19mm     | M8        |   |   | 17   | AW-43-R      | W701681-S     |

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| Metric (Cont'd) |         |           |        |           |       |   |      |              |                |
|-----------------|---------|-----------|--------|-----------|-------|---|------|--------------|----------------|
| A               | B       | C         | D      | E         | F     | G | TYPE | LOCATOR CODE | PART NUMBER    |
| 57.35mm         | 34.0mm  | M8        | 14.0mm | M8        | —     | — | 17   | AW-43-T      | W704599-S426   |
| 71mm            | 43mm    | M10       | 17mm   | M10       |       |   | 17   | AW-43-W      | W703972-S900   |
| 72.5mm          | 52.2mm  | M12       | 16.3mm | M12       |       |   | 17   | AW-43-V      | N808670-S301   |
| 73.5mm          | 43.5mm  | M10       | 15.5mm | M10       |       |   | 17   | AW-43-S      | N811284-S101   |
| 75.5mm          | 45.5mm  | M12       | 24mm   | M12       | —     | — | 17   | AW-43-SA     | W708873-S309   |
| 78mm            | 54mm    | M6        | 24mm   | M6        | —     | — | 17   | AW-43-Z      | W707389-S309   |
| 114mm           | —       | M10       | 6mm    | M10       |       |   | 17   | AW-43-J      | N807373-S36B   |
| 114mm           | —       | M10       | 6mm    | M10       | —     | — | 17   | AW-43-J      | N807373-S437   |
| 57.2mm          | 35.9mm  | M12       | 19.3mm | 7/16"-14  |       |   | 22   | AW-33        | N802366-S2     |
| 61.5mm          | 21mm    | M8        | 35mm   | M8        |       |   | 23   | AW-61-DE     | N804756-S2     |
| 72mm            | 25mm    | M10       | 42mm   | M8        |       |   | 23   | AW-61-DD     | N804215-S8     |
| 81mm            | 18mm    | M8        | 55mm   | M8        |       |   | 23   | AW-61-H      | N803949-S2     |
| 93.4mm          | 21mm    | M8        | 33mm   | M10       |       |   | 23   | AW-61-AC     | N803152-S2     |
| 168.3mm         | 35mm    | M10 x 1.5 | 128mm  | M8 x 1.25 |       |   | 23   | AW-61-C      | ★ N802014-S2   |
| 34.5mm          | 15.2mm  | M6        | 13.2mm | M6        | —     | — | 28   | AW-62-Y      | ★ N811881-S439 |
| 40mm            | 22mm    | M6        | 16mm   | M4.5      | —     | — | 28   | AW-62-Q      | N811425-S36M   |
| 40mm            | 22mm    | M6        | 16mm   | M4.5      | —     | — | 28   | AW-62-Q      | N811425-S440   |
| 51mm            | 22mm    | M10       | 20mm   | M10       |       |   | 28   | AW-62-P      | N804044-S100   |
| 61mm            | 26mm    | M10       | 20mm   | M12       |       |   | 28   | AW-62-B      | N802110-S      |
| 61.0mm          | 28mm    | M10       | 18mm   | M12       |       |   | 28   | AW-62-K      | N802854-S2     |
| 62mm            | 30mm    | M6        | 24mm   | M6        |       |   | 28   | AW-62-AF     | W705403-S309   |
| 70mm            | 8.5mm   | M10       | 40mm   | M10       |       |   | 28   | AW-62-AD     | N805980-S36    |
| 129.3mm         | 100mm   | M8        | 20mm   | M8        |       |   | 28   | AW-62-Z      | N805065-S8     |
| 114.5mm         | 50mm    | M8        | 57mm   | M12       | 7.5mm |   | 32   | AW-65-H      | N805555-S150   |
| 44mm            | 14.5mm  | M5        | 20.5mm | M5        | 6.9mm |   | 34   | AW-65-C      | ★ W705779-S421 |
| 44mm            | 14.5mm  | M5        | 20.5mm | M5        | 6.9mm | — | 34   | AW-65-CA     | W705779-S437   |
| 63mm            | 20.5mm  | M8        | 37mm   | M8        |       |   | 34   | AW-30-D      | N801648-S      |
| 73mm            | 17mm    | M10       | 53mm   | M10       |       |   | 36   | AW-44-A      | N803810-S2     |
| 108mm           | 22mm    | M8        | 13mm   | M8        |       |   | 36   | AW-44-N      | W701104-S309   |
| 69.25mm         | 16.50mm | M8        | 46mm   | M8        | 7mm   |   | 37   | AW-70-A      | N804105-S2     |
| 47.1mm          | 10mm    | M6        | 29mm   | M8        |       |   | 38   | AW-63-BB     | N801424-S36    |
| 70mm            | 18mm    | M10       | 43mm   | M10       |       |   | 38   | AW-63-T      | ★ N801472-S51  |
| 70mm            | 18mm    | M10       | 43mm   | M10       | —     | — | 38   | AW-63-T      | N801472-S309   |
| 85.3mm          | 14mm    | M6        | 30mm   | M10       | —     | — | 38   | AW-63-C      | W709812-S437   |
| 90.2mm          | 15mm    | M8        | 21mm   | M8        |       |   | 38   | AW-63-U      | N806529-S2     |
| 120mm           | 20mm    | M10       | 33mm   | M10       |       |   | 38   | AW-63-D      | ★ N803483-S100 |
| 133mm           | 22.9mm  | 1/4"-20   | 35mm   | M6 x 1    |       |   | 38   | AW-63-E      | ★ N800591-S2   |
| 39.1mm          | 12.25mm | M6        | 16.8mm | M6        | —     | — | 40   | AW-135-Z     | W706214-S301   |
| 40.8mm          | 14mm    | M10       | 17.5mm | M6        |       |   | 40   | AW-135-G     | ★ N804752-S    |
| 41mm            | 14mm    | M6        | 20mm   | M6        |       |   | 40   | AW-135-F     | ★ N804751-S2   |
| 44.1mm          | 13mm    | M8        | 25mm   | M6        |       |   | 40   | AW-135-E     | ★ N802782-S100 |
| 46.1mm          | 7.9mm   | M5        | 30.4mm | M6        | —     | — | 40   | AW-135-M     | W709705-S900   |
| 49.5mm          | 15mm    | M6        | 22mm   | M6        | —     | — | 40   | AW-135-J     | W701672-S309   |
| 49.5mm          | 15mm    | M6        | 22mm   | M6        | —     | — | 40   | AW-135-J     | W701672-S437   |
| 49.5mm          | 15mm    | M6        | 22mm   | M6        | —     | — | 40   | AW-135-J     | W701672-S440   |
| 50mm            | 15mm    | M8        | 25mm   | M6        |       |   | 40   | AW-135-B     | ★ E804530-S72  |
| 53mm            | 44.1mm  | M10       | 30mm   | M10       | —     | — | 40   | AW-135-D     | E804137-SVMR   |
| 53mm            | 44.1mm  | M10       | 30mm   | M10       |       |   | 40   | AW-135-D     | ★ E804137-S2   |
| 54mm            | 14mm    | M10       | 30.5mm | M6        |       |   | 40   | AW-135-DC    | N805571-S2     |
| 54.95mm         | 22mm    | M10       | 25mm   | M8        |       |   | 40   | AW-135-A     | ★ N803773-S2   |
| 56.5mm          | 16mm    | M8        | 35mm   | M6        |       |   | 40   | AW-135       | ★ N803698-S2   |
| 57mm            | 17mm    | M8        | 33mm   | M8        |       |   | 40   | AW-135-H     | ★ N804854-S2   |
| 59.25mm         | 16mm    | M8        | 32.0mm | M6        | —     | — | 40   | AW-135       | W709614-S437   |
| 72.9mm          | 14mm    | M6        | 50mm   | M5        | —     | — | 40   | AW-135-CP    | W706896-S437   |
| 74.5mm          | 22mm    | M8        | 43mm   | M10       | —     | — | 40   | AW-135-L     | W700551-S303   |
| 84.3mm          | 24.3mm  | M10       | 60mm   | M10       |       |   | 40   | AW-135-C     | ★ N804785-S43  |
| 115mm           | 104mm   | M6        | 11.9mm | 1/4"-20   |       |   | 40   | AW-135-CP    | ★ N804321-S100 |
| 116.5mm         | 19mm    | M10       | 80mm   | M8        | —     | — | 40   | AW-135-CA    | N808873-S437   |
| 131mm           | 13mm    | M8        | 118mm  | M6        | —     |   | 40   | AW-135-CR    | ★ W706446-S309 |
| 42.37mm         | 22mm    | M6        | 12mm   |           |       |   | 41   | AW-62-X      | ★ N805600-S2   |
| 55.1mm          | 20mm    | M6        | 24mm   |           |       |   | 41   | AW-62-SC     | ★ N803262-S2   |
| 55.1mm          | 22mm    | M6        | 24.7mm |           |       |   | 41   | AW-62-SD     | N803262-S100   |

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# Standard and Utility Parts Catalog

## PH-179(B)    STUD CHART (Cont'd)

| Metric (Cont'd) |          |        |         |        |      |       |      |              |               |
|-----------------|----------|--------|---------|--------|------|-------|------|--------------|---------------|
| A               | B        | C      | D       | E      | F    | G     | TYPE | LOCATOR CODE | PART NUMBER   |
| 55.8mm          | 22.5mm   | M6     | 24.7mm  |        |      |       | 41   | AW-62-S      | ★N802993-S2   |
| 66.7mm          | 35mm     | M6     | 24mm    |        |      |       | 41   | AW-62-R      | ★N802232-S8   |
| 70mm            | 35mm     | M6     | 24.23mm |        |      |       | 41   | AW-62-W      | ★N804281-S2   |
| 126.9mm         | 94mm     | M8     | 21.77mm |        |      |       | 41   | AW-62-Y      | N808334-S2    |
| 14.2mm          | 1.6mm    | 6.0mm  | —       | —      | —    | 8.8mm | 44   | AW-48-B      | W700121-S403  |
| 38mm            | 16mm     | M7     | 22.4mm  | M6     |      |       | 46   | AW-50        | ★N800302-S51M |
| 45mm            | 21mm     | M6.3   | 24mm    | M6     |      |       | 46   | AW-50-E      | ★N800319-S36  |
| 49mm            | 30mm     | M6     | 19mm    | M9     | —    | 8.8mm | 47   | AW-48        | W706668-S309  |
| 53mm            | 14mm     | M12    | 25mm    | M8     | 2mm  | 8.8mm | 48   | AW-47        | W704602-S309  |
| 70mm            | 40mm     | M6     | 24mm    | —      | —    | —     | 48   | AW-62-Z      | ★W705644-S309 |
| 70mm            | 40mm     | M6     | 24mm    | —      | —    | —     | 48   | AW-62-ZA     | W705644-S437  |
| 65.5mm          | 29.5mm   | 27.6mm | 55mm    | M10    |      |       | 49   | AW-53-A      | N808287-S60   |
| 82mm            | 15.5mm   | M6     | 36mm    | M8     | —    | —     | 49   | AW-53-C      | N806979-S431  |
| 136.5mm         | 15mm     | M6     | 30mm    | M6     |      |       | 49   | AW-53-B      | N808456-S309  |
| 112.11mm        | 28mm     | M8     | 16.8mm  | 15mm   | .5mm |       | 50   | AW-50-F      | N805973-S2    |
| 38mm            | 24mm     | 6.0mm  | —       | —      | —    | —     | 51   | AW-50-GG     | N806729-S100  |
| 119mm           | 13mm     | —      | 13.0mm  | M8     | —    |       | 54   | AW-54-Z      | W707821-S301  |
| 68.5mm          | M6       | 4.5mm  | 24mm    | 44.5mm |      |       | 55   | AW-75-FA     | N806356-S2    |
| 88mm            | 22mm     | 30mm   | 2.0mm   | M10    | M10  | M10   | 56   | AW-80-E      | N801070-S100  |
| 15.2mm          | M8       | 16.0mm | —       | —      | —    | —     | 61   | AW-85-E      | W706307-S301  |
| 17mm            | 11mm     | —      | —       | —      | —    | —     | 61   | AW-85-Z      | W703413-S309  |
| 32mm            | M6       | 28mm   | —       | —      | —    | —     | 61   | AW-85-ZZ     | N811759-S301  |
| 25mm            | 7/16"-20 | M8     | —       | —      | —    | —     | 62   | AW-86        | N803981-S100  |
| 27mm            | 4.5mm    | 8mm    | 6mm     | —      | —    | —     | 63   | AW-88-EF     | N806193-S309C |
| 34.3mm          | 24mm     |        | 30mm    | M6     |      | 8.8   | 63   | 040-020      | W705403-S309  |
| 59.1mm          | 25.6mm   | M10    | 2.5mm   | M10    | —    | —     | 63   | AW-87-D      | N806966-S424  |
| 75.4mm          | 25.0mm   | 4.58mm |         |        |      |       | 63   | AW-87-C      | N808761-S309  |
| 110mm           | 71.8mm   | M8     | 15mm    | M10    |      | 8.8   | 63   | 040-020      | W705653-S309  |
| 43mm            | 22mm     | M6     | 8mm     | M5     | —    | —     | 64   | AW-88-DA     | W707412-S437  |
| 44.8mm          | 20.0mm   | M5     | 10.0mm  | M5     | —    | —     | 64   | AW-91-B      | W707075-S437  |
| 52.4mm          | 24.42mm  | M6     | 17mm    | M6     | —    | —     | 64   | AW-87-FA     | W701808-S309  |
| 52.4mm          | 24.42mm  | M6     | 17mm    | M6     | —    | —     | 64   | AW-87-FB     | W701808-S437  |
| 59.2mm          | 30mm     | M8     | 20mm    | M6     |      |       | 64   | AW-87-F      | W701606-S309  |
| 59.2mm          | 30mm     | M8     | 20mm    | M6     | —    | —     | 64   | AW-87-FA     | W701606-S437  |
| 63.97mm         | 33.5mm   |        | 24.77mm | M6     |      |       | 64   | AW-88-J      | ★N807443-S2   |
| 65mm            | 39mm     | M10    | 16.7mm  | M10    |      |       | 64   | AW-88-H      | N805994-S36   |
| 67mm            | 47mm     | M8     | 19mm    | M8     | —    | 8mm   | 64   | AW-88-AZ     | W702501-S437  |
| 67mm            | 47mm     | M8     | 19mm    | M8     | —    | 8mm   | 64   | AW-88-AZ     | W702501-S1414 |
| 71mm            | 30mm     | M10    | 30mm    | M10    |      |       | 64   | AW-88-DH     | ★W702622-S309 |
| 81.8mm          | 54.43mm  | M8     | 20.43mm | M8     | —    | —     | 64   | AW-89        | N805551-S403  |
| 92.2mm          | 65mm     | M8     | 15.7mm  | M8     |      |       | 64   | AW-92-F      | N805630-S36   |
| 94.3mm          | 70.0mm   | M8     | 21.3mm  |        |      |       | 64   | AW-87-L      | N807036-S8    |
| 99.0mm          | 75.6mm   | M10    | 9.7mm   | M10    | —    | —     | 64   | AW-88-BA     | W710296-S437  |
| 99.3mm          | 70.0mm   | M8     | 20.0mm  | M8     |      |       | 64   | AW-88-BB     | ★N807515-S8   |
| 99.3mm          | 70.0mm   | M8     | 20.0mm  | M8     | —    | —     | 64   | AW-88-BB     | N807515-S437  |
| 107.6mm         | 68.0mm   | M10    | 27.0mm  | M8     |      |       | 64   | AW-98-BH     | N808140-S309  |
| 170.8mm         | 128.5mm  | M8     | 20mm    | M8     |      |       | 64   | AW-87-J      | N807259-S100  |
| 82.3mm          | 15mm     | M6     | 14mm    | M6     | 54mm |       | 66   | AW-90        | ★N804483-S8   |
| 119.6mm         | 17mm     | M6     | 85.6mm  | M6     |      | 8.8   | 66   | 040-230      | W702588-S309  |
| 51.0mm          | 24mm     | 3.6mm  | 24.25mm | 24mm   |      |       | 67   | AW-93-P      | N801366-S2    |
| 53.5mm          | M6       | 4.6mm  | M6      | 4.4mm  | —    | —     | 67   | AW-93-M      | N811529-S309  |
| 58mm            | 27.5mm   | 9.9mm  | 28mm    | 9.9mm  |      |       | 67   | AW-93-B      | ★N802351-S2   |
| 64.0mm          | 31.0mm   | 9.9mm  | 31.0mm  | 9.9mm  |      |       | 67   | AW-93-K      | N803869-S58   |
| 68.5mm          | M8       | 6.1mm  | M8      | 5.0mm  | —    | —     | 67   | AW-93-N      | N811342-S309  |
| 68.5mm          | M8       | 6.1mm  | M8      | 5.0mm  | —    | —     | 67   | AW-93-N      | N811342-S437  |
| 103mm           | 21mm     | M10    | 29mm    | M10    | —    | —     | 67   | AW-93-R      | W705832-S309  |
| 125mm           | 30mm     | M10    | 14mm    | M10    | —    | —     | 67   | AW-93-H      | N807242-S437  |
| 137mm           | 17mm     | M8     | 17mm    | M8     |      |       | 67   | AW-93-G      | N805757-S103  |
| 137mm           | 17mm     | M8     | 17mm    | M8     | —    | —     | 67   | AW-93-GA     | ★N805757-S105 |
| 156mm           | 36mm     | M8     | 17mm    | M8     | —    | —     | 67   | AW-93-E      | N804853-S437  |
| 5.68mm          | 30mm     | M6     | 13mm    | M6     |      |       | 68   | 040-020      | N807039-S309  |
| 32mm            | 16.0mm   | 4.3mm  | 16.0mm  | 4.3mm  |      |       | 68   | AW-91-BS     | W701041-S300  |

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| Metric (Cont'd) |         |         |         |         |   |        |      |              |                |
|-----------------|---------|---------|---------|---------|---|--------|------|--------------|----------------|
| A               | B       | C       | D       | E       | F | G      | TYPE | LOCATOR CODE | PART NUMBER    |
| 39mm            | 20.5mm  |         | 6.9mm   | M5      |   |        | 68   | AW-91-BC     | N806976-S2     |
| 39.7mm          | 16.5mm  | M6      | 12mm    | M5      |   |        | 68   | AW-91-CA     | W706214-S309   |
| 40.0mm          | 16.3mm  | M6      | 9.0mm   | M5      |   |        | 68   | AW-91-BW     | N808183-S36    |
| 41mm            | 25mm    | M6      | 16.9mm  | M6      |   |        | 68   | AW-20-C      | W705310-S309   |
| 41mm            | 25mm    | M6      | 16.9mm  | M6      | — | —      | 68   | AW-20-C      | W705310-S437   |
| 42.3mm          | 16mm    | 3.6mm   | 12.25mm | M5      |   |        | 68   | AW-91-BF     | W701643-S309   |
| 42.3mm          | 16mm    | 3.6mm   | 12.25mm | M5      | — | —      | 68   | AW-91-BF     | W701643-S415   |
| 43.9mm          | 20.42mm | M6      | 12.35mm | M6      | — | —      | 68   | AW-91-BU     | W701822-S309   |
| 43.9mm          | 20.42mm | M6      | 12.35mm | M6      | — | —      | 68   | AW-91-BU     | W701822-S437   |
| 44.5mm          | 25mm    | M8      | 14mm    | M6      |   |        | 68   | AW-91-BM     | N807381-S2     |
| 47.5mm          | 29.4mm  |         | 15mm    | M6      |   |        | 68   | AW-91-BD     | W701632-S309   |
| 47.5mm          | 29.4mm  | —       | 15mm    | M6      | — | —      | 68   | AW-91-BD     | W701632-S437   |
| 50.5mm          | 20mm    | 4.4mm   | 20mm    | 4.4mm   | — | —      | 68   | AW-91-CZ     | N811449-S309   |
| 50.5mm          | 20mm    | 4.4mm   | 20mm    | 4.4mm   | — | —      | 68   | AW-91-CZ     | N811449-S437   |
| 51mm            | 22mm    | M6      | 9.3mm   | M10     | — | —      | 68   | AW-91-BFA    | N808292-S437M  |
| 51mm            | 24mm    | 7.9mm   | 24mm    | 7.9mm   | — | —      | 68   | AW-91-DG     | N811777-S424   |
| 52.8mm          | 20.7mm  | 22.50mm | 15.5mm  | 13.0mm  |   |        | 68   | AW-91-BU     | N807682-S421   |
| 53.3mm          | 22mm    | M10     | 22mm    | M10     |   |        | 68   | AW-91-A      | ★ N805803-S101 |
| 53.3mm          | 23.0mm  | M8      | 21.0mm  | M8      |   |        | 68   | AW-91-BX     | N808549-S36    |
| 54.3mm          | 25.0mm  | M7.8    | 14.0mm  | M4.4    |   |        | 68   | AW-92-LL     | N811415-S309   |
| 54.3mm          | 30mm    | M6      | 13.5mm  | M6      |   |        | 68   | AB-91-AC     | N807039-S309   |
| 56.8mm          | 22.0mm  | M7.8    | 22.0mm  | M10     |   |        | 68   | AW-91-BT     | ★ N808380-S36  |
| 56.8mm          | 22.0mm  | M7.8    | 22.0mm  | M10     | — | —      | 68   | AW-91-BT     | W701712-S437   |
| 58mm            | 28mm    | 6.1mm   | 15.5mm  | 6.1mm   |   |        | 68   | AW-91-AD     | N807336-S2     |
| 58.65mm         | 29mm    | M8      | 21mm    | M8      |   |        | 68   | AW-91-BS     | N807762-S2     |
| 59.3mm          | 26mm    | —       | 21mm    | M8      | — |        | 68   | AW-91-M      | N811572-S431   |
| 60.3mm          | 30mm    | M8      | 16mm    | M8      | — |        | 68   | AW-91-L      | N806771-S36    |
| 61.5mm          | 40mm    | M6      | 16mm    |         |   |        | 68   | AW-91-H      | W701535-S309   |
| 63mm            | 40mm    | M10     | 23mm    | M6      | — | —      | 68   | AW-91-BV     | N811294-S36    |
| 63.7mm          | 32mm    | 2mm     | 17.4mm  | 2mm     |   |        | 68   | AW-91-BL     | N808163-S100   |
| 66.3mm          | 40mm    | 13mm    | 13mm    | 4.4mm   |   |        | 68   | AW-91-BK     | N807441-S2     |
| 67.25mm         | 53mm    | 6mm     | 12.25mm | 4.3mm   | — | —      | 68   | AW-91-BW     | W706153-S309   |
| 68.9mm          | 45mm    | M10     | 15mm    | M8      | — | —      | 68   | AW-91-BA     | W702001-S440   |
| 71.5mm          | 47.3mm  | M4.4    | 18.0mm  | 14.48mm |   |        | 68   | AW-91-K      | W701589-S309   |
| 73mm            | 40mm    | M8      | 20mm    | M6      | — | —      | 68   | AW-91-DD     | W706961-S309   |
| 78.1mm          | 47.0mm  | M10     | 18mm    | M6      | — | —      | 68   | AW-91-DA     | N808793-S309   |
| 81.2mm          | 47.5mm  | M8      | 20mm    | M8      |   |        | 68   | AW-91-BT     | W701712-S421   |
| 86.35mm         | 51.5mm  | 13mm    | 24mm    | 4.4mm   |   |        | 68   | AW-91-BJ     | N808586-S309   |
| 89mm            | 74.1mm  | 5.8mm   | 15mm    | 4.4mm   | — | —      | 68   | AW-91-BZ     | ★ W705023-S437 |
| 92mm            | 60mm    | M8      | 20mm    | M6      |   |        | 68   | AW-91-BG     | W704919-S309   |
| 97mm            | 79.0mm  | 6.1mm   | 18mm    | 6.1mm   | — | —      | 68   | AW-91-E      | W707225-S437   |
| 105mm           | 15mm    | 4.2mm   | 40mm    | M6      | — | —      | 68   | AW-91-DE     | W706759-S309   |
| 125.7mm         | 75mm    | M8      | 20mm    | M6      |   |        | 68   | AW-91-BR     | N806764-S2     |
| 141.7mm         | 97mm    | M8      | 30mm    | M6      |   |        | 68   | AW-91-BQ     | N808450-S309   |
| 142.3mm         | 100mm   | 1.25mm  | 20mm    | 1.25mm  |   |        | 68   | AW-91-BH     | N806510-S8     |
| 142.3mm         | 100mm   | 1.25mm  | 20mm    | 1.25mm  | — | —      | 68   | AW-91-BH     | N806510-S437   |
| 147.2mm         | 120.0mm | M8      | 13.4mm  | M6      | — | —      | 68   | AW-91-BX     | W706419-S309   |
| 10mm            | 65mm    | 22mm    | 65mm    | M8      | — | —      | 69   | AW-92-D      | W706244-S421   |
| 40mm            | 65mm    | 22mm    | 65mm    | M8      |   |        | 69   | AW-92-D      | W706244-S424   |
| 70mm            | 50mm    | M8      | 10mm    | M6      | — | —      | 69   | AW-92-Y      | ★ W706508-S309 |
| 70mm            | 50mm    | M8      | 10mm    | M6      | — | —      | 69   | AW-92-Y      | W706508-S437   |
| 81mm            | 65mm    | M6      | 16mm    | M6      | — | —      | 69   | AW-92-X      | W706560-S301   |
| 98mm            | 70mm    | M8      | 20mm    | M8      | — | —      | 69   | AW-92-C      | N805112-S437   |
| 98mm            | 70mm    | M8      | 20mm    | M8      | — | —      | 69   | AW-92-CA     | ★ N805112-S309 |
| 103.1mm         | 68mm    | M8      | 30mm    | M8      |   |        | 69   | AW-92-CD     | N806300-S2     |
| 134.2mm         | 105mm   | M8      | 21mm    | M8      |   |        | 69   | AW-92-T      | ★ N804835-S2   |
| 36.12mm         | 20.0mm  | 4.60mm  | 18.28mm | M6      |   |        | 70   | AW-94-F      | N808169-S36    |
| 56.7mm          | 20.8mm  | M8      | 19.9mm  | M8      |   | 10.9mm | 70   | AW-92-H      | W705495-S431   |
| 90mm            | 45mm    | M8      | 38mm    | M8      |   | 8.8mm  | 70   | AW-92-G      | W705494-S303   |
| 52mm            | 28mm    | 6.00mm  | 22mm    | 10.5mm  | — | —      | 71   | AW-96-LA     | W708819-S437   |
| 57.5mm          | 37.5mm  | M10     | 17mm    | M10     |   |        | 71   | AW-96-E      | N805455-S2     |
| 72.5mm          | 53mm    | 10.2mm  | 16.26mm | M12     |   |        | 71   | AW-96-M      | N808670-S301   |

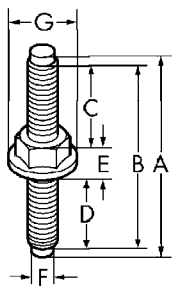
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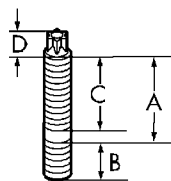
## PH-179(B) STUD CHART (Cont'd)

| Metric (Cont'd) |         |          |         |          |         |       |      |              |                |
|-----------------|---------|----------|---------|----------|---------|-------|------|--------------|----------------|
| A               | B       | C        | D       | E        | F       | G     | TYPE | LOCATOR CODE | PART NUMBER    |
| 53mm            | 16mm    | 10.2mm   | 25mm    | M12      |         |       | 72   | AW-96-K      | N807988-S100   |
| 57.2mm          | 19.3mm  | M10      | 29mm    | 7/16"-14 | 11.11mm |       | 72   | AW-97-E      | ★ N804903-S2   |
| 70.4mm          | 20mm    | M12      | 51.3mm  | 7/16"-14 |         |       | 72   | AW-97-G      | N804013-S2     |
| 76.2mm          | 40.8mm  | 4.4mm    | 36mm    | 6.1mm    | 2.21mm  | —     | 72   | AW-12-CA     | N806979-S309   |
| 76.2mm          | 40.8mm  | 4.4mm    | 36mm    | 6.1mm    | 2.21mm  | —     | 72   | AW-12-CA     | N806979-S437   |
| M10             | 27.0mm  | 6.1mm    | 65mm    | 7.8mm    | 7.1mm   | —     | 72   | AW-12-CB     | N808140-S431   |
| 30.3mm          | 20mm    | M6       | 10.3mm  | M6       | —       | 8.8   | 73   | AW-30-YA     | W503407-S437   |
| 59mm            | 27mm    | M10      | 32mm    | M10      |         | Steel | 73   | AW-30-Y      | N811326-S424   |
| 30mm            | 23mm    | M6       | 16mm    | M7       | —       | —     | 74   | AW-99-A      | W706630-S900   |
| 32mm            | 20.5mm  | M6       | 9.5mm   | M6       |         | 9.5   | 74   | 040-230      | N808764-S36    |
| 33mm            | 21mm    | M8       | 12mm    | M8       | —       | —     | 74   | AW-99-C      | W703300-S300   |
| 45.5mm          | 23.0mm  | M6       | 16.0mm  | M6       | —       | —     | 74   | AW-99-BA     | W701815-S309   |
| 48mm            | 24mm    | M8       |         | M8       |         | 10    | 74   | 040-230      | N811291-S424   |
| 50.5mm          | 30mm    | M8       | 18mm    | M8       | —       | —     | 74   | AW-99-B      | W706931-S424   |
| 50.5mm          | 30mm    | M8       | 18mm    | M8       | —       | —     | 74   | AW-99-B      | W706931-S439   |
| 59mm            | 37mm    | M10      | 22mm    | M10      | —       | —     | 74   | AW-99-AC     | W710217-S439   |
| 62mm            | 32mm    | M10      | 22mm    | M10      | —       | —     | 74   | AW-99-A      | W704474-S309   |
| 64.4mm          | 34mm    | M10      | 16mm    | M10      |         |       | 74   | 040-230      | W705444-S900   |
| 65.3mm          | 35.3mm  | M12      | 27.5mm  | M12      |         |       | 74   | AW-36-F      | N808989-S190   |
| 65.3mm          | 35.3mm  | M10      | 27.5mm  | M12      | —       | —     | 74   | AW-36-FA     | W708846-S424   |
| 72mm            | 53mm    | M10      | 15mm    | M10      |         |       | 74   | 040-230      | W705374-S901   |
| 61.25mm         | 16mm    | M6       | 13.75mm | M6       | 7mm     |       | 75   | AW-100-E     | N805330-S      |
| 79mm            | 15.75mm | M6       | 13.75mm | M6       | 7mm     |       | 75   | AW-100-J     | N805331-S      |
| 40mm            | 20mm    | M6       | 20mm    | M6       |         |       | 76   | AW-101-E     | E804579-S72    |
| 57mm            | 22.93mm | M8       | 19mm    | M8       | —       | —     | 76   | AW-101-AW    | W705495-S431   |
| 10.4mm          | 36mm    | M10      | 19mm    | M10      | —       | —     | 76   | AW-101-P     | W709663-S301   |
| 53.5mm          | 33mm    | M8       |         | M8       |         |       | 77   | AW-102-H     | W704378-S1309  |
| 90mm            | 81mm    | M10      | —       | —        | —       | —     | 77   | AW-102-J     | W704787-S437   |
| 39mm            | 16.5mm  | M8       | 12.5mm  | M8       |         |       | 78   | AW-136-S     | W701890-S426   |
| 39mm            | 16.5mm  | M8       | 12.5mm  | M8       | —       | —     | 78   | AW-136-S     | ★ W701890-S427 |
| 55.9mm          | 16.5mm  | M8       | 12.5mm  | M8       |         |       | 78   | AW-136-T     | W705358-S900   |
| 56mm            | 29mm    | M10      | 13mm    | M10      |         |       | 78   | 040-230      | W701978-S309   |
| 56.0mm          | 27.5mm  | M10      | 11.5mm  | M10      |         |       | 78   | AW-136-J     | W701811-S301   |
| 80mm            | 31.5mm  | M10      | 13mm    | M10      |         |       | 78   | AW-100-G     | N808754-S309   |
| 96.05mm         | 55.0mm  | M12      | 23.05mm | M12      | —       | —     | 78   | AW-136-P     | W710424-S439   |
| 98mm            | 7mm     | M8       | 18.5mm  | M8       |         |       | 78   | AW-136-H     | N806374-S2     |
| 120.0mm         | 24mm    | M8       | 17mm    | M8       | —       | —     | 78   | AW-136-PA    | W708164-S309   |
| 121.5mm         | 24.5mm  | M10      | 27.5mm  | M10      | —       | —     | 78   | AW-136-PD    | W709985-S437   |
| 131.7mm         | 31mm    | M8       | 17mm    | M8       |         | 8.8   | 78   | AW-136-U     | W704795-S309   |
| 134mm           | 37mm    | M12      | 39mm    | M12      | —       | —     | 78   | AW-136-V     | W707972-S426   |
| 135.5mm         | 13.2mm  | M8       | 41.5mm  | M8       | —       | —     | 78   | AW-136-VA    | W708474-S437M  |
| 63.42mm         | 57.83mm | 9.5mm    | 16.26mm |          |         |       | 79   | AW-91-C      | N806227-S301   |
| 66.5mm          | 58.5mm  | 7.8mm    |         |          | M10     |       | 79   | 040-010      | N808659-S100   |
| 78.6mm          | 78mm    | M8       | 16mm    | M8       |         |       | 79   | AW-91-DK     | N811026-S1     |
| 81.7mm          | 76mm    | 6mm      |         |          | M8      |       | 79   | 040-010      | W701620-S309   |
| 30mm            | 57mm    | M6       | 14.70mm | M6       | —       | —     | 80   | AW-100-X     | W707428-S309   |
| 38.7mm          | 19.5mm  | M6       | 13mm    | M6       |         |       | 80   | AW-100-HH    | N803393-S57    |
| 38.7mm          | 19.5mm  | M6       | 13mm    | M6       |         |       | 80   | AW-100-H     | N803393-S60    |
| 41.5mm          | 25mm    | 8mm      | 10mm    | M6       |         |       | 80   | AW-136-J     | N802388-S190   |
| 54.0mm          | 30.8mm  | —        | —       | M8       | —       | —     | 80   | AW-136-K     | N803521-S102   |
| 55.4mm          | 24.4mm  | 7/16"-14 | 22mm    | 1.5-6G   |         |       | 80   | AW-136-L     | N806468-S100   |
| 60mm            | 40mm    | M10      | 20mm    | M10      |         |       | 80   | AW-136-Q     | N804617-S36    |
| 60.5mm          | 15.5mm  | M10      | 29mm    | M12      |         |       | 80   | AW-136-R     | N807868-S36    |
| 84mm            | 55mm    | 17mm     | 20mm    | M10      |         |       | 80   | AW-136-N     | N802884-S100   |
| 55mm            | 14.5mm  | M10      | —       | —        | —       | —     | 82   | AW-101-J     | W704602-S309   |
| 49.5mm          | 21mm    | M10      | 14.5mm  | 8.5mm    |         | Steel | 83   | 940-230      | N811341-S101   |
| 51mm            | 21mm    | M10      | 14.5mm  | M10      |         | 8     | 83   | 040-230      | N811341-S101   |
| 54.15mm         | 20mm    | M8       | 14mm    | 5.6mm    | 10.5mm  | —     | 83   | AW-136-MA    | W701991-S426   |
| 60.5mm          | 50mm    | M10      |         |          |         | 9.8   | 83   | 040-230      | N806944-S1427  |
| 65.4mm          | 25.15mm | M10      | 19.5mm  | M10      | Spacer  |       | 83   | AW-101-N     | ★ W701987-S901 |
| 66mm            | 35mm    | M12      | 22mm    | 7.87mm   | M12     | —     | 83   | AW-101-T     | W703961-S439   |
| 81.05mm         | 53.0mm  | M12      | 23.05mm | 10.0mm   | M12     | —     | 83   | AW-101-A     | W710284-S440   |
| 81.05mm         | 53.0mm  | M12      | 23.05mm | 10.0mm   | M12     | —     | 83   | AW-101-A     | W710284-S440   |
| 116.5mm         | 80mm    | M8       | 19mm    | M10      |         | 9.8   |      | 040-020      | N808873-S309   |

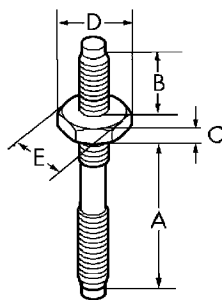
## PH-179(C) STUD CHART



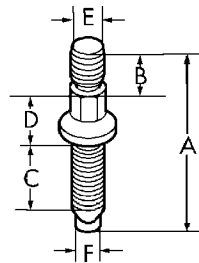
TYPE 1



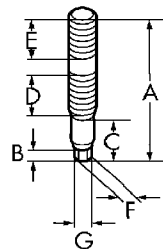
TYPE 2



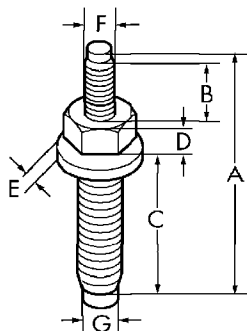
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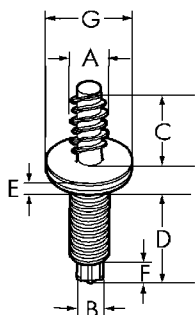
TYPE 4



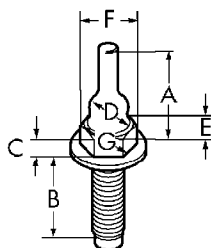
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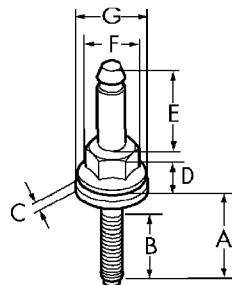
TYPE 6



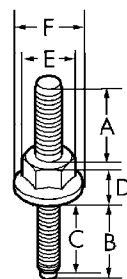
TYPE 7



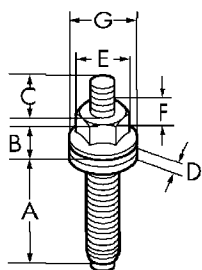
TYPE 8



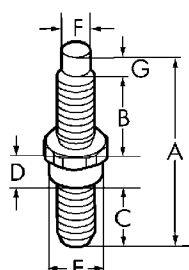
TYPE 9



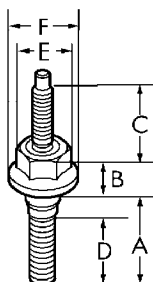
TYPE 10



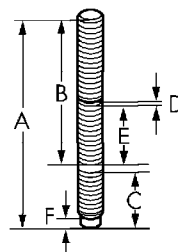
TYPE 11



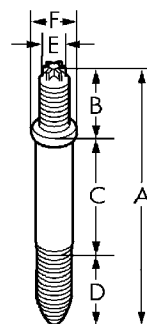
TYPE 12



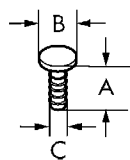
TYPE 13



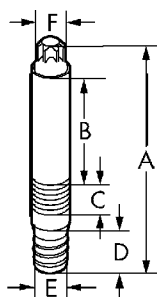
TYPE 14



TYPE 15



TYPE 16



TYPE 17

PH-179C  
11/24/2004

(continue)

# Standard and Utility Parts Catalog

## PH-179(C) STUD CHART — STUD and RETAINER (Cont'd)

| NOMINAL SIZE | A       | B       | C       | D       | E       | F       | G       | TYPE | LOCATOR CODE | PART NUMBER    |
|--------------|---------|---------|---------|---------|---------|---------|---------|------|--------------|----------------|
| M5           | 59.8mm  | —       | 12.55mm | 37.42mm | 5.6mm   | —       | 16.00mm | 1    | WF-100-J     | W709084-S437   |
| M5/M6        | 34.45mm | 30.2mm  | 12.0mm  | 12.0mm  | 6.9mm   | —       | —       | 1    | WF-100-N     | W709699-S437   |
| M5/M6        | 43.4mm  | 38.9mm  | 18mm    | 14mm    | 6.9mm   | 4.4mm   | 13.6mm  | 1    | WF-100-A     | W708124-S437   |
| M6           | 39.5mm  | 30.7mm  | 13mm    | 26.5mm  | 6.9mm   | 4.4mm   | 20.8mm  | 1    | WF-100-D     | W708442-S900   |
| M6           | 43.5mm  | 38.0mm  | 15mm    | 16mm    | 7mm     | 4.4mm   | 17mm    | 1    | WF-100-M     | W705619-S427   |
| M6           | 76.75mm | —       | 16mm    | 47mm    | 8.5mm   | —       | 17mm    | 1    | WF-100-H     | W708307-S437   |
| M6/M5        | 56.65mm | 50.9mm  | 16mm    | 28mm    | 6.9mm   | 3.0mm   | 17mm    | 1    | WF-100-E     | W706783-S309   |
| M6/M8        | 53mm    | —       | 14mm    | 25mm    | 8.5mm   | 6mm     | 22.8mm  | 1    | WF-100-C     | W704925-S431   |
| M6/M8        | 53mm    | —       | 14mm    | 25mm    | 8.5mm   | 6mm     | 22.8mm  | 1    | WF-100-B     | W704925-S437   |
| M6/M8        | 82mm    | —       | 20.0mm  | 47.5mm  | —       | —       | 17mm    | 1    | WF-100-G     | W706213-S309   |
| M6/M8        | 82mm    | —       | 20.0mm  | 47.5mm  | —       | —       | 17mm    | 1    | WF-100-G     | W706213-S440   |
| M8/M6        | 56.20mm | 50.70mm | 20.00mm | 21.50mm | 6.20mm  | —       | 16.26mm | 1    | WF-100-K     | W706438-S309   |
| M8/M6        | 56.20mm | 50.70mm | 20.00mm | 21.50mm | 6.20mm  | —       | 16.26mm | 1    | WF-100-L     | W706438-S437   |
| M8           | 22mm    | 18mm    | 22mm    | 3.2mm   | —       | —       | —       | 2    | AW-99-HC     | W708486-S426   |
| M8           | 22.92mm | 14.58mm | 14.42mm | 6.0mm   | —       | —       | —       | 2    | AW-99-HB     | N811725-S424   |
| M8           | 28.5mm  | 19.3mm  | 15.5mm  | 10.5mm  | —       | —       | —       | 2    | AW-99-AB     | W704378-S309   |
| M10          | 32mm    | 22mm    | 27mm    | 7.34mm  | —       | —       | —       | 2    | AW-99-HF     | W703806-S309   |
| M10          | 47.5mm  | 17.0mm  | —       | 5.8mm   | —       | —       | —       | 2    | AW-99-HD     | N805152-S437   |
| M10          | 93.0mm  | 20.0mm  | 38.0mm  | 5.0mm   | —       | —       | —       | 2    | AW-99-HF     | W710134-S439   |
| M10          | 115.0mm | 20.0mm  | 61.0mm  | 5.0mm   | —       | —       | —       | 2    | AW-99-HE     | W710110-S439   |
| M12          | 50mm    | 24mm    | 44mm    | 7.87mm  | —       | —       | —       | 2    | AW-99-HA     | W702401-S309   |
| M8           | 65mm    | 16mm    | 5.1mm   | 19.5mm  | 18mm    | —       | —       | 3    | WF-200-A     | ★ W706560-S309 |
| M8           | 65mm    | 30.0mm  | 5.1mm   | 19.5mm  | 18mm    | —       | —       | 3    | AW-99-HE     | W709573-S440   |
| M10          | 69.1mm  | 16mm    | 29mm    | 14.9mm  | 6.65mm  | 7.54mm  | —       | 4    | WF-300-A     | W707188-S900   |
| M8           | 56.2mm  | 5.5mm   | 6.3mm   | 17.6mm  | 13.6mm  | 5.77mm  | 5.07mm  | 5    | WF-301-A     | W707747-S437   |
| M8           | 157mm   | 5.5mm   | —       | \$31mm  | 17mm    | 5mm     | 5.4mm   | 5    | WF-301-B     | W708097-S426   |
| M5/M6        | 124mm   | 18mm    | 105mm   | .64mm   | 1.8mm   | 3.6mm   | —       | 6    | AW-62-JB     | W708250-S437   |
| M6           | 39.65mm | 12.35mm | 16.35mm | 6.9mm   | 2.21mm  | —       | —       | 6    | AW-62-JF     | W709065-S415   |
| M6           | 39.65mm | 12.35mm | 16.35mm | 6.9mm   | 2.21mm  | —       | —       | 6    | AW-62-JF     | W709065-S900   |
| M6           | 44.29mm | 16.0mm  | 20.0mm  | 6.9mm   | 1.39mm  | 4.4mm   | —       | 6    | AW-62-JH     | N808624-S36M   |
| M6           | 45.65mm | 15mm    | 22.5mm  | 4.45mm  | 2.21mm  | —       | —       | 6    | AW-62-JD     | N807691-S309   |
| M6           | 45.65mm | 15mm    | 22.5mm  | 4.45mm  | 2.21mm  | —       | —       | 6    | AW-62-JD     | N807691-S437   |
| M6           | 48.5mm  | 15mm    | 20mm    | 8.5mm   | 2.21mm  | —       | —       | 6    | AW-62-JF     | W701571-S431   |
| M6           | 48.5mm  | 15mm    | 20mm    | 8.5mm   | 2.21mm  | —       | —       | 6    | AW-62-JE     | ★ W701571-S437 |
| M6           | 59.2mm  | 20.70mm | 30mm    | 8.5mm   | 1.8mm   | 4.83mm  | M6      | 6    | AW-62-JC     | W707644-S309   |
| M6           | 67.8mm  | 16.0mm  | 45.0mm  | 6.8mm   | 1.8mm   | —       | 4.5mm   | 6    | AW-62-JH     | W709845-S437   |
| M6           | 75.75mm | 31mm    | 35mm    | 5.4mm   | 2.21mm  | M6      | M6      | 6    | AW-62-JG     | W704683-S437   |
| M6/M8        | 56.4mm  | 21mm    | 20mm    | 5.4mm   | 2.21mm  | M6      | M8      | 6    | AW-62-JA     | W707107-S309   |
| M6/M8        | 142mm   | 13.4mm  | 119mm   | 8.5mm   | 1.51mm  | M6      | M8      | 6    | WF-302-D     | ★ W707821-S309 |
| M6/M8        | 142mm   | 13.4mm  | 119mm   | 8.5mm   | 1.51mm  | M6      | M8      | 6    | WF-302-C     | W707821-S437   |
| M6/M10       | 54.3mm  | 14mm    | 25mm    | —       | —       | M6      | M10     | 6    | WF-302-B     | N811415-S437   |
| M10          | 73.9mm  | 20mm    | 45mm    | 8.9mm   | 1.75mm  | M10     | M10     | 6    | WF-302-E     | W707498-S309   |
| M10          | 73.9mm  | 20mm    | 45mm    | 8.9mm   | 1.75mm  | M10     | M10     | 6    | WF-302-E     | W707498-S437   |
| M6           | —       | —       | 10.8mm  | 16mm    | 1.0mm   | 3.23mm  | 13mm    | 7    | WF-303-A     | W704856-S900   |
| M5           | 18mm    | 22.8mm  | 3.50mm  | 7.1mm   | 8mm     | 8.6mm   | 12.95mm | 8    | WF-304-A     | W705499-S421   |
| M6           | 16.0mm  | 20.0mm  | —       | 6.9mm   | 8.00mm  | 13.97mm | —       | 10   | WF-400-C     | W710421-S900   |
| M6/M5        | 40mm    | 27mm    | 1.8mm   | 6.9mm   | 24.77mm | 8mm     | 13.6mm  | 9    | AW-146-JA    | W707272-S309   |
| M6/M5        | 40mm    | 27mm    | 1.8mm   | 6.9mm   | 24.77mm | 8mm     | 13.6mm  | 9    | AW-146-JA    | ★ W707272-S437 |
| M6/M5        | 30mm    | 31mm    | 29mm    | 6.9mm   | 8mm     | 13.6mm  | —       | 10   | WF-400-A     | W708489-S437   |
| M6           | 30mm    | 8.5mm   | 8.7mm   | 1.8mm   | 10.8mm  | 10.0mm  | 13.6mm  | 11   | AW-62-YA     | W707656-S309   |
| M10          | 64.4mm  | 33.5mm  | 12.5mm  | 14.9mm  | 12.1mm  | 7.8mm   | 5.3mm   | 12   | WF-500-A     | W709209-S900   |
| M10          | 64.4mm  | 34.5mm  | 16.0mm  | 13.9mm  | 12.1mm  | 7.8mm   | —       | 12   | WF-500-C     | W709717-S900   |
| M6/M10       | 38mm    | 9.7mm   | 16mm    | 26mm    | 13mm    | 20.8mm  | —       | 13   | WF-510-A     | W706194-S309   |
| M10/M6       | 80mm    | 10.2mm  | 16mm    | 30mm    | 15.00mm | 24.7mm  | —       | 13   | WF-511-A     | W704893-S437   |
| M10          | 88mm    | 63mm    | \$22mm  | 61mm    | 25mm    | —       | —       | 14   | AW-99-HF     | N808978-S192   |
| M10/M12      | 63.0mm  | 31.0mm  | 48.0mm  | 23.0mm  | 7.28mm  | 15.0mm  | —       | 15   | AW-99-M      | W709045-S424   |
| M4           | 10.6mm  | 5.9mm   | 4.0mm   | —       | —       | —       | —       | 16   | WF-512-A     | W706119-S403   |
| M8           | 52.15mm | 26.22mm | #10mm   | 9mm     | 6.62mm  | 5.99mm  | —       | 17   | WF-520       | W710326-S439   |

\$ = Includes Patch

# Adhesive

## PH-184 “C” WASHER and RETAINING RING



TYPE 2



TYPE 3



TYPE 4



TYPE 5



TYPE 7



TYPE 8



TYPE 9



TYPE 10



TYPE 11

PH184

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | TYPE | MATERIAL | LOCATOR CODE | PART NUMBER  |
|-----------|-----------------|------------------|-----------|------|----------|--------------|--------------|
| 5/64"     | 3/32"           | 15/64"           | 1/64"     | 2    | Steel    | XX-2         | ★ 351826-S   |
| 7/64"     | 9/64"           | 21/64"           | 1/32"     | 3    | Steel    | XX-9         | ★ 351825-S   |
| 3/16"     | 13/64"          | 33/64"           | 1/64"     | 3    | Steel    | XX-10        | ★ 353862-S8  |
| 3/16"     | 1/4"            | 1/2"             | 1/32"     | 3    | Steel    | XX-8-C       | ★ 359354-S   |
| 7/32"     | 3/16"           | 7/16"            | 1/32"     | 3    | Steel    | XX-10-E      | ★ 378483-S   |
| 1/4"      | 13/64"          | 33/64"           | 1/32"     | 3    | Steel    | QQ-35        | ★ 372999-S   |
| 9/32"     | 19/64"          | 21/32"           | 1/32"     | 3    | Steel    | XX-10-A      | ★ 358675-S   |
| 3/8"      | 19/64"          | 21/32"           | 1/32"     | 3    | Steel    | XX-13-C      | ★ 374035-S   |
| 3/16"     | 7/32"           | 5/8"             | 1/16"     | 4    | Steel    | XX-14        | ★ 356957-S   |
| 1/8"      | 3/32"           | 17/64"           | 1/64"     | 5    | Steel    | XX-14-F      | ★ 377918-S8B |
| 5/16"     | 15/64"          | 37/64"           | 1/32"     | 5    | Steel    | XX-15-D      | ★ 374979-S   |
| 7/16"     | 11/32"          | 31/32"           | 1/64"     | 7    | Steel    | XX-16-FE     | ★ 371197-S   |
| 7/16"     | 29/64"          | 1"               | 13/16"    | 8    | Aluminum | XX-16-H      | ★ 384545-S   |
| 1/2"      | 13/32"          | 13/16"           | 3/64"     | 8    | Steel    | XX-16-HL     | 389775-S     |
| 3/8"      | 9/32"           | 3/4"             | 1/64"     | 9    | Steel    | XX-16-M      | 379620-S100  |
| 1/4"      | 3/16"           | 15/32"           | 1/64"     | 11   | Steel    | XX-22-C      | ★ 387271-S   |
| 5/16"     | 1/4"            | 19/32"           | 1/16"     | 11   | Steel    | XX-22-D      | ★ 388021-S2  |
| 1/2"      | 13/32"          | 13/16"           | 1/16"     | 11   | Steel    | XX-22-F      | ★ 388885-S   |

### Metric

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | TYPE | MATERIAL | LOCATOR CODE | PART NUMBER   |
|-----------|-----------------|------------------|-----------|------|----------|--------------|---------------|
| 3mm       | 2.8mm           | 5.6mm            | 0.40mm    | 3    | Steel    | AX-23-B      | N663102-S2    |
| 3.2mm     | 3.2mm           | 9.8mm            | 1.2mm     | 3    | Steel    | AX-23-DH     | ★ E860134-S   |
| 4mm       | 4mm             | 7mm              | 0.7mm     | 3    | Steel    | AQ-5         | ★ E663206-S71 |
| 4mm       | 4mm             | 7.2mm            | .66mm     | 3    | Steel    | AQ-5-A       | N663103-S2    |
| 4mm       | 4mm             | 7.2mm            | .66mm     | 3    | Steel    | AQ-5-A       | N663103-S61   |
| 4mm       | 4mm             | 7.2mm            | .66mm     | 3    | Steel    | AQ-5-A       | N663103-S437M |
| 7mm       | 7mm             | 14mm             | 0.9mm     | 3    | Steel    | AQ-90-E      | ★ E663209-S71 |
| 8mm       | 8mm             | 16mm             | 1mm       | 3    | Steel    | AQ-5-B       | ★ E663210-S71 |
| 9mm       | 6.85mm          | 15.8mm           | 0.96mm    | 3    | Steel    | AX-21-D      | ★ N663108-S   |
| 9mm       | 9mm             | 18.5mm           | 1.10mm    | 3    | Steel    | AQ-90-M      | ★ E663211-S71 |
| 10mm      | 7.60mm          | 16.8mm           | 0.90mm    | 3    | Steel    | AX-21-E      | N663109-S     |
| 10mm      | 8mm             | 16mm             | 1mm       | 3    | Steel    | AX-22        | ★ E663210-S   |
| 10mm      | 8mm             | 20mm             | 1.2mm     | 3    | Steel    | AX-20        | ★ E860104-S   |
| 13mm      |                 |                  |           | 3    | Steel    | AQ-100-G     | N807600       |
| 8mm       | 7mm             | 14mm             | 0.9mm     | 5    | Steel    | AX-25        | ★ 68309-GS    |
| 6.6mm     | 6.6mm           | 18.5mm           | 2.5mm     | 7    | Steel    | AQ-95-E      | ★ E860072-S81 |
| 23mm      | 23.8mm          | 32.5mm           | 6.5mm     | 8    | Nylon    | AX-26        | N804842-S     |
| 23mm      | 23.8mm          | 32.5mm           | 2.4mm     | 8    | Nylon    | AX-26A       | N807853-S     |
| 12.2mm    | 12.2mm          | 22.6mm           | 1.35mm    | 10   | Steel    | AQ-100-E     | ★ E662258-S   |



# Standard and Utility Parts Catalog

## PH-183 WASHER — CUP



| HOLE SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | HEIGHT | TYPE | MATERIAL | LOCATOR CODE | PART NUMBER   |
|-----------|-----------------|------------------|--------|------|----------|--------------|---------------|
| 5/8"      | 1-1/4"          | 1-3/8"           | 13/32" | 1    | Steel    | XX-17-F      | ★ 387390-S100 |
| 3/4"      | 15/16"          | 1-1/16"          | 3/16"  | 1    | Steel    | XX-17-G      | ★ 390932-S    |
| 5/8"      | 21/32"          | 1-11/16"         | 3/16"  | 2    | Steel    | XX-14-D      | ★ 385935-S2   |
| 5/8"      | 21/32"          | 1-11/16"         | 3/16"  | 2    | Steel    | XX-14-C      | 385935-S36    |
| 3/8"      | 23/32"          | 1-5/32"          | 1.00"  | 3    | Steel    | XX-32-E      | ★ 386371-S100 |

| Metric       |                 |                  |           |      |          |              |                |
|--------------|-----------------|------------------|-----------|------|----------|--------------|----------------|
| NOMINAL SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | TYPE | MATERIAL | LOCATOR CODE | PART NUMBER    |
| 5.40mm       | 15.75mm         | 15.87mm          | 6.4mm     | 1    | Steel    | AX-24        | ★ N800748-S100 |
| —            | 16.3mm          | 68.0mm           | 3mm       | 1    | —        | AX-24-A      | N808762-S36M   |
| 14.3mm       | 50.5mm          | 53.5mm           | 30mm      | 1    | Steel    | AX-24-D      | ★ N806779-S100 |
| 9.3mm        | 15.2mm          | 30mm             | 4.4mm     | 2    | Steel    | AX-75-G      | ★ N800265-S2   |
| 10mm         | 10.25mm         | 41.5mm           | 3.5mm     | 2    | Steel    | AX-75-M      | N802084-S2     |
| 11.8mm       | 12.2mm          | 22mm             | 1mm       | 2    |          | AX-75-D      | ★ N804085-S    |
| 12.3mm       | 12.3mm          | 26mm             | 3mm       | 2    | Steel    | AX-75-L      | ★ E836207-S85  |
| 12.50mm      | 12.50mm         | 43mm             | 3mm       | 2    | Steel    | AX-75-J      | N803734-S2     |
| 14mm         | 14mm            | 43mm             | 2.5mm     | 2    | Steel    | AX-75-E      | N801335-S      |
| 14.1mm       | 14.1mm          | 32mm             | 2mm       | 2    | Steel    | AX-75-A      | ★ E836216-S85  |
| 14.3mm       | 14.3mm          | 55mm             | 3mm       | 2    | Steel    | AX-75-C      | ★ N804002-S36  |
| 14.5mm       | 14.5mm          | 51.3mm           | 3.0mm     | 2    | Steel    | AX-75-CA     | N803952-S100   |
| 16.2mm       | 40.5mm          | 50.5mm           | 3mm       | 2    | Steel    | AX-75-K      | N804350-S36    |
| 17.3mm       | 17.3mm          | 43mm             | 2.5mm     | 2    | Steel    | AX-75-F      | ★ N801336-S5   |
| 17.3mm       | 17.3mm          | 47mm             | 2.6mm     | 2    | Steel    | AX-75-H      | N802855-S2     |
| 17.3mm       | 17.3mm          | 55mm             | 3mm       | 2    | Steel    | AX-75-B      | ★ N804003-S36  |
| 8.5mm        | 8.5mm           | 34mm             | 4.2mm     | 4    | Steel    | AX-90-B      | ★ N803397-S36  |
| 9mm          | 9mm             | 28mm             | 4mm       | 4    | Steel    | AX-90-E      | ★ N802063-S36  |
| 10mm         | 10mm            | 34mm             | 3mm       | 4    | Steel    | AX-90-A      | ★ N803307-S9   |
| 16.3mm       | 46mm            | 63mm             | 5mm       | 4    | Steel    | AX-90-AA     | ★ N805627-S36M |
| 18.14mm      | 18.14mm         | 53mm             | 5.9mm     | 4    | Steel    | AX-90-C      | ★ N804148-S36  |
| 19.2mm       | 19.2mm          | 49mm             | 8mm       | 4    | Steel    | AX-90-CA     | N805469-S56    |
| 22.7mm       | 22.7mm          | 53mm             | 5.9mm     | 4    | Steel    | AX-90-D      | ★ N804149-S2   |

## PH-185 WASHER — FINISHING — FLUSH COUNTERSUNK



PH185

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | TYPE | LOCATOR CODE | PART NUMBER |
|-----------|-----------------|------------------|-----------|------|--------------|-------------|
| 1/2"      | 33/64"          | 1-49/64"         | 1/16"     | 1    | XX-37        | ★ 351460-S8 |

| Metric |         |        |     |   |         |               |
|--------|---------|--------|-----|---|---------|---------------|
| M5     | 5.3mm   | 12mm   |     | 1 | AX-80-F | ★ E836211-S74 |
| M10    | 10.66mm | 17.5mm | 2mm | 1 | AX-80-D | ★ N802692-S2  |
| M18    | 12mm    | 44.7mm |     | 1 | AX-80-E | ★ N801433-S40 |

PH-638

WASHER — FLAT



PH638

| BOLT SIZE | OUTSIDE DIAMETER | THICKNESS | LOCATOR CODE | PART NUMBER |
|-----------|------------------|-----------|--------------|-------------|
| 1/4"      | 5/8"             | 1/16"     | X-17         | 44719-S8    |
| 1/4"      | 5/8"             | 5/64"     | X-17-A       | 44719-S2    |
| 5/16"     | 11/16"           | 1/16"     | X-19         | 44722-S8    |
| 5/16"     | 3/4"             | 3/32"     | X-19-B       | 44723-S36   |
| 3/8"      | 3/4"             | 3/32"     | X-24-B       | 44877-S2    |
| 7/16"     | 0.81"            | 0.09"     | X-26-A       | 373230-S2   |
| 7/16"     | 15/16"           | 3/32"     | X-27         | 44878-S2    |
| 7/16"     | 1.000            | .187      | X-26-Z       | 392002-S436 |
| 7/16"     | 2-3/16"          | 11/64"    | X-37         | 385127-S36  |
| 1/2"      | 1-1/16"          | 3/32"     | X-31-G       | 44879-S2    |
| 1/2"      | 1-1/4"           | 7/64"     | X-32         | 44735-S8    |
| 1/2"      | 2.06"            | .442"     | X-36         | 387676      |
| 9/16"     | 1-1/8"           | 1/8"      | X-39-C       | 44880-S2    |
| 9/16"     | 1-1/8"           | 1/8"      | X-39-CA      | 44880-S36M  |
| 9/16"     | 1-3/8"           | 7/64"     | X-39-D       | 383071-S2   |
| 9/16"     | 1.03             | 1/8"      | X-39-E       | 373780-S2   |
| 5/8"      | 1-3/16"          | 1/8"      | X-40-G       | 44881-S2    |
| 3/4"      | 11/32"           | 1/2"      | X-34-B       | N805266-S   |
| 3/4"      | 1-7/16"          | 1/8"      | X-34         | 44882-S2    |
| 7/8"      | 1-5/8"           | 1/8"      | X-45-A       | 44883-S2    |

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | MATERIAL          | LOCATOR CODE | PART NUMBER   |
|-----------|-----------------|------------------|-----------|-------------------|--------------|---------------|
| No. 8     | 5/32"           | 5/8"             | 3/16"     | Plastic           | XX-45-L      | ★383616-SΔ    |
| No. 8     | 11/64"          | 5/16"            | 1/64"     | Brass             | XX-46        | ★359113-S     |
| No. 8     | 3/16"           | 1/2"             | 1/16"     | Black Felt        | XX-46-A      | ★372793-S     |
| No. 8     | 13/64"          | 7/16"            | 1/32"     | Nylon             | XX-49        | ★359182-S     |
| 1/8"      | 1/8"            |                  |           | Steel             | XX-44-B      | ★372901-S2    |
| 3/16"     | 3/16"           | 7/16"            | 1/32"     | Steel             | XX-78        | ★372396-S8    |
| 1/4"      | 1/16"           | 3/4"             | 1/16"     | Steel             | XX-78-A      | ★353108-S8    |
| 1/4"      | 1/8"            | 1-3/8"           | 1/8"      | Rubber            | XX-83-F      | ★386724-S     |
| 1/4"      | 1/4"            | 13/32"           | 1/32"     | Nylon             | XX-59-F      | ★372610-S     |
| 1/4"      | 1/4"            | 1/2"             | 1/4"      | Elastomer         | XX-378       | ★375546-S     |
| 1/4"      | 1/4"            | 1/2"             | 1/64"     | Steel             | XX-87        | ★358662-S     |
| 1/4"      | 1/4"            | 1/2"             | 0.03      | Steel             | XX-87-D      | 356264-S36    |
| 1/4"      | 1/4"            | 35/64"           | .009"     | Steel             | XX-85        | ★375482-S8B   |
| 1/4"      | 1/4"            | 35/64"           | .041"     | Steel             | XX-85-B      | ★375484-S8B   |
| 1/4"      | 1/4"            | 5/8"             | 1/8"      | Foam Rubber       | XX-85-BA     | 388735-S      |
| 1/4"      | 1/4"            | 3/4"             | 1/32"     | Steel             | XX-87-C      | ★358607-S2    |
| 1/4"      | 1/4"            | 1-9/64"          | 1/16"     | Steel             | XX-91-A      | ★377803-S7-8  |
| 1/4"      | 17/64"          | 3/8"             | 1/64"     | Steel             | XX-59-D      | ★351336-S8    |
| 1/4"      | 17/64"          | 1/2"             | 1/32"     | Steel             | XX-87-A      | ★351283-S8    |
| 1/4"      | 17/64"          | 31/32"           | 1/16"     | Steel             | XX-92        | ★356208-S2    |
| 1/4"      | 9/32"           | 1/2"             | 1/16"     | Steel             | XX-87-B      | ★351323-S2    |
| 1/4"      | 19/64"          | 15/32"           | 1/32"     | Aluminum          | XX-94-A      | ★374370-S     |
| 1/4"      | 19/64"          | 1-5/8"           | 1/64"     | Steel             | XX-94-F      | ★387418-S100  |
| 5/16"     | 5/16"           | 5/8"             | 3/64"     | Steel             | XX-112-H     | ★379039-S     |
| 5/16"     | 5/16"           | 3/4"             | 1/32"     | Acetal Resin      | XX-118-A     | ★375897-S     |
| 5/16"     | 5/16"           | 7/8"             | 1/16"     | Stainless Steel   | XX-87-E      | ★389064-S46   |
| 5/16"     | 5/16"           | 1-1/4"           | 3/32"     | Steel             | XX-118-C     | ★351349-S2    |
| 5/16"     | 21/64"          | 9/16"            | 1/16"     | Steel             | XX-102-A     | ★375275-S2    |
| 5/16"     | 21/64"          | 5/8"             | 1/64"     | Steel             | XX-112-G     | ★373944-S5    |
| 5/16"     | 21/64"          | 5/8"             | 1/16"     | Steel             | XX-113       | ★356184-S     |
| 5/16"     | 21/64"          | 21/32"           | 1/32"     | Aluminum & Rubber | XX-113-A     | ★379257-SΔ    |
| 5/16"     | 21/64"          | 7/8"             | 5/16"     | Steel & Elastomer | XX-119-P     | ★383103-S100Δ |
| 5/16"     | 21/64"          | 15/16"           | 3/16"     | Steel             | XX-115       | ★358605-S     |
| 5/16"     | 21/64"          | 1-1/8"           | 1/16"     | Steel             | XX-118       | ★351362-S2    |
| 5/16"     | 21/64"          | 1-1/8"           | 3/32"     | Steel             | XX-107       | ★359840-S8    |
| 5/16"     | 11/32"          | 1"               | 3/16"     | Steel             | XX-120       | ★353846-S8    |
| 5/16"     | 11/32"          | 1-1/16"          | 3/32"     | Steel             | XX-121       | ★354054-S8    |

Δ Sealing Washer

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# Standard and Utility Parts Catalog

## PH-638 WASHER — FLAT (Cont'd)

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | MATERIAL    | LOCATOR CODE | PART NUMBER  |
|-----------|-----------------|------------------|-----------|-------------|--------------|--------------|
| 5/16"     | 11/32"          | 1-1/2"           | 1/16"     | Steel       | XX-125       | ★351353-S7-8 |
| 7/16"     | 1/2"            | 1-1/2"           | 1/16"     | Steel       | XX-125-A     | ★387455-S2   |
| 3/8"      | 3/8"            | 3/4"             | 3/32"     | Steel       | XX-127       | ★353992-S    |
| 3/8"      | 3/8"            | 3/4"             | 1/8"      | Steel       | XX-127-A     | ★390339-S    |
| 3/8"      | 3/8"            | 3/4"             | 3/8"      | Steel       | XX-118-B     | ★375744-S2   |
| 3/8"      | 3/8"            | 49/64"           | 1/64"     | Brass       | XX-136       | ★356425-S    |
| 3/8"      | 3/8"            | 13/16"           | 11/64"    | Steel       | XX-140-N     | 373603-S2    |
| 3/8"      | 3/8"            | 7/8"             | 3/32"     | Steel       | XX-312-C     | ★388084-S    |
| 3/8"      | 3/8"            | 7/8"             | 3/32"     | Steel       | XX-312-D     | ★388084-S46  |
| 3/8"      | 3/8"            | 1"               | 1/16"     | Plastic     | XX-136-A     | ★386206-S    |
| 3/8"      | 3/8"            | 1"               | 1/4"      | Steel       | XX-144-C     | 356372-S2    |
| 3/8"      | 25/64"          | 9/16"            | 3/16"     | Steel       | XX-313       | ★371838-S    |
| 3/8"      | 25/64"          | 5/8"             | 1/16"     | Steel       | XX-315       | ★353956-S    |
| 3/8"      | 25/64"          | 21/32"           | 1/16"     | Steel       | XX-156       | ★353667-S    |
| 3/8"      | 25/64"          | 11/16"           | .005"     | Steel       | XX-161       | ★372205-S    |
| 3/8"      | 25/64"          | 11/16"           | 1/8"      | Lam. Fabric | XX-154       | ★371693-S    |
| 3/8"      | 25/64"          | 3/4"             | 7/64"     | Steel       | XX-158       | ★351385-S7   |
| 3/8"      | 13/32"          | 19/32"           | 3/64"     | Copper      | XX-155-A     | 373820-S     |
| 3/8"      | 13/32"          | 41/64"           | 3/32"     | Brass       | XX-157       | ★388949-S    |
| 3/8"      | 13/32"          | 45/64"           | 5/32"     | Steel       | XX-314       | ★370347-S    |
| 3/8"      | 13/32"          | 3/4"             | 3/32"     | Steel       | XX-162-E     | ★373231-S37  |
| 3/8"      | 13/32"          | 13/16"           | 7/16"     | Steel       | XX-141-A     | ★359986-S    |
| 3/8"      | 13/32"          | 7/8"             | 11/32"    | Steel       | XX-312       | ★359537-S    |
| 3/8"      | 13/32"          | 7/8"             | 11/32"    | Steel       | XX-312-E     | ★359537-S2   |
| 3/8"      | 25/64"          | 1"               | 3/32"     | Steel       | XX-143-B     | ★382118-S    |
| 3/8"      | 25/64"          | 1"               | 3/32"     | Steel       | XX-143-BA    | ★382118-S36  |
| 3/8"      | 13/32"          | 1"               | 1/8"      | Steel       | XX-143-A     | ★382585-S100 |
| 3/8"      | 13/32"          | 1"               | 9/64"     | Steel       | XX-144       | ★372702-S    |
| 3/8"      | 13/32"          | 1-1/4"           | 3/16"     | Steel       | XX-146-C     | ★372505-S8   |
| 3/8"      | 13/32"          | 1-3/8"           | 5/32"     | Steel       | XX-163-G     | ★385208-S2   |
| 3/8"      | 13/32"          | 1-1/2"           | 5/64"     | Steel       | XX-147       | ★351405-S7   |
| 3/8"      | 13/32"          | 1-5/8"           | 5/64"     | Steel       | XX-147-E     | ★388337-S2   |
| 3/8"      | 13/32"          | 1-3/4"           | 1/16"     | Steel       | XX-165-B     | ★388804-S2   |
| 3/8"      | 7/16"           | 3/4"             | 1/32"     | Steel       | XX-162       | ★356214-S8   |
| 25/64"    | 3/8"            | 29/32"           | 1/16"     | Steel       | XX-165       | ★372285-S    |
| 7/16"     | 7/16"           | 25/32"           | 3/16"     | Steel       | XX-166-AA    | ★383180-S40  |
| 7/16"     | 7/16"           | 1-3/4"           | 3/32"     | Steel       | XX-162-B     | ★387674-S    |
| 3/8"      | 7/16"           | 1-3/4"           | 7/64"     | Steel       | XX-162-C     | 44729-SA     |
| 7/16"     | 29/64"          | 25/32"           | 3/32"     | Steel       | XX-165-F     | ★375277-S    |
| 7/16"     | 15/32"          | 5/8"             | 3/32"     | Brass       | XX-165-H     | ★389756-S190 |
| 7/16"     | 15/32"          | 3/4"             | 1/32"     | Steel       | XX-165-J     | ★370172-S    |
| 7/16"     | 29/64"          | 29/32"           | 1/8"      | Steel       | XX-166       | ★351428-S7   |
| 7/16"     | 29/64"          | 1"               | 1/16"     | Nylon       | XX-166-A     | 376668-S     |
| 7/16"     | 29/64"          | 1-1/4"           | 3/16"     | Steel       | XX-173-A     | ★382457-S2   |
| 7/16"     | 29/64"          | 1-5/16"          | 3/16"     | Steel       | XX-173-AA    | ★382629-S100 |
| 7/16"     | 29/64"          | 1-17/32"         | 11/64"    | Steel       | XX-173-H     | ★120875-ES8  |
| 7/16"     | 29/64"          | 2"               | 7/64"     | Steel       | XX-170       | ★356583-S100 |
| 7/16"     | 15/32"          | 21/32"           | 3/64"     | Steel       | XX-168       | ★372583-S    |
| 7/16"     | 15/32"          | 11/16"           | 23/64"    | Steel       | XX-178-K     | ★384778-S    |
| 7/16"     | 15/32"          | 25/32"           | 7/64"     | Steel       | XX-171       | ★356590-S    |
| 7/16"     | 15/32"          | 15/16"           | 1/16"     | Steel       | XX-173       | ★352153-S    |
| 7/16"     | 15/32"          | 15/16"           | 3/32"     | Steel       | XX-173-C     | 380079-S2    |
| 7/16"     | 15/32"          | 1"               | 11/64"    | Steel       | XX-173-B     | ★382580-S100 |
| 7/16"     | 15/32"          | 1-1/4"           | 1/8"      | Steel       | XX-173-EX    | ★382873-S    |
| 7/16"     | 15/32"          | 1-1/4"           | 23/32"    | Steel       | XX-173-G     | 384542-S2    |
| 7/16"     | 15/32"          | 1-9/32"          | 1/2"      | Steel       | XX-173-FF    | ★384543-S5   |
| 7/16"     | 15/32"          | 1-9/32"          | 1/2"      | Steel       | XX-173-F     | ★384543-S8   |
| 7/16"     | 15/32"          | 1-1/2"           | 3/64"     | Steel       | XX-170-B     | 386659-S100  |
| 7/16"     | 15/32"          | 2"               | 11/64"    | Steel       | XX-170-D     | 385127-S2    |
| 7/16"     | 31/64"          | 1"               | 3/16"     | Steel       | XX-173-BB    | ★388273-S100 |
| 7/16"     | 31/64"          | 1"               | 3/16"     | Steel       | XX-173-BC    | 391982-S191  |
| 7/16"     | 1/2"            | 51/64"           | 9/64"     | Rubber      | XX-178-C     | ★354959-S    |

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## PH-638 WASHER — FLAT (Cont'd)

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | MATERIAL     | LOCATOR CODE | PART NUMBER  |
|-----------|-----------------|------------------|-----------|--------------|--------------|--------------|
| 7/16"     | 1/2"            | 1"               | 7/16"     | Rubber       | XX-178-E     | ★386369-S    |
| 29/64"    | 29/64"          | 1"               | 13/64"    | Steel        | XX-178-N     | ★354149-S36  |
| 1/2"      | 35/64"          | 1-1/16"          | 1/8"      | Steel        | XX-190-F     | ★44879-S     |
| 1/2"      | 1/2"            | 1-1/16"          | 3/32"     | Steel        | XX-190-D     | ★372408-S37  |
| 1/2"      | 1/2"            | 2"               | 3/16"     | Steel        | XX-190-E     | ★387963-S52  |
| 1/2"      | 1/2"            | 2-1/16"          | 3/32"     | Steel        | XX-184-F     | 387677-S     |
| 1/2"      | 1/2"            | 2-1/16"          | 7/16"     | Steel        | XX-184-H     | ★387676-S    |
| 1/2"      | 33/64"          | 21/32"           | 1/32"     | Nylon        | XX-178-M     | ★381976-S    |
| 1/2"      | 33/64"          | 7/8"             | 1/16"     | Steel        | XX-179       | ★371703-S    |
| 1/2"      | 33/64"          | 59/64"           | 1/32"     | Steel        | XX-180       | ★371702-S    |
| 1/2"      | 33/64"          | 1"               | 1/64"     | Steel        | XX-182-A     | ★385816-S2   |
| 1/2"      | 33/64"          | 1"               | 1/8"      | Steel        | XX-183       | ★356474-S18  |
| 1/2"      | 33/64"          | 1-3/32"          | 1/8"      | Steel        | XX-183-A     | ★374268-S    |
| 1/2"      | 33/64"          | 1-1/4"           | 5/32"     | Steel        | XX-183-B     | ★373339-S36M |
| 1/2"      | 33/64"          | 1-1/4"           | 5/32"     | Steel        | XX-183-C     | ★373339-S36  |
| 1/2"      | 17/32"          | 7/8"             | 3/32"     | Steel        | XX-186       | ★351453-S8   |
| 1/2"      | 17/32"          | 7/8"             | 3/32"     | Steel        | XX-186-A     | ★372407-S2   |
| 1/2"      | 17/32"          | 7/8"             | 1/4"      | Steel        | XX-179-A     | ★382582-S100 |
| 1/2"      | 17/32"          | 1"               | 1/16"     | Nylon        | XX-187-G     | ★385625-S    |
| 1/2"      | 35/64"          | 1-23/32"         | 1/4"      | Steel        | XX-187-B     | ★390390-S    |
| 1/2"      | 17/32"          | 1-7/8"           | 1/4"      | Steel        | XX-187-BA    | ★390862-S56  |
| 31/64"    | 31/64"          | 51/64"           | 1/16"     | Steel        | XX-179-AG    | ★375674-S36  |
| 1/2"      | 1/2"            | 13/16"           | 9/64"     | Rubber       | XX-191-G     | ★354959-S    |
| 1/2"      | 17/32"          | 1-1/16"          | 5/64"     | Steel        | XX-190       | ★372408-S2   |
| 1/2"      | 17/32"          | 1-19/64"         | 3/16"     | Steel        | XX-191-B     | 382552-S100  |
| 1/2"      | 17/32"          | 1-1/2"           | 1/2"      | Steel        | XX-190-C     | ★385025-S2   |
| 1/2"      | 17/32"          | 1-3/4"           | 1/8"      | Steel        | XX-184       | ★356606-S8   |
| 1/2"      | 9/16"           | 1-7/16"          | 1/8"      | Steel        | XX-191-F     | ★382598-S2   |
| 9/16"     | 9/16"           | 1-1/4"           | 15/32"    | Steel        | XX-193-C     | ★385555-S2   |
| 9/16"     | 9/16"           | 2-1/2"           |           | Steel        | XX-193-E     | ★385042-S    |
| 9/16"     | 37/64"          | 7/8"             | 3/8"      | Steel        | XX-196-F     | ★387194-S    |
| 9/16"     | 37/64"          | 7/8"             | 5/8"      | Rubber       | XX-197-G     | ★385681-S    |
| 9/16"     | 37/64"          | 1-1/8"           | 1/4"      | Steel        | XX-198-A     | 374049-S     |
| 9/16"     | 19/32"          | 7/8"             | 15/32"    | Steel        | XX-206-A     | ★384777-S    |
| 9/16"     | 19/32"          | 15/16"           | 1/4"      | Steel        | XX-197-Z     | ★382553-S100 |
| 9/16"     | 19/32"          | 1"               | 1/8"      | Steel        | XX-202-A     | ★374607-S    |
| 9/16"     | 19/32"          | 2"               | 5/64"     | Rubber       | XX-203-A     | ★375390-S    |
| 9/16"     | 19/32"          | 2-3/8"           | 3/16"     | Steel        | XX-203-D     | ★384525-S2   |
| 9/16"     | 39/64"          | 15/16"           | 13/64"    | Steel        | XX-200-E     | 388832-S     |
| 9/16"     | 5/8"            | 1-1/4"           | 3/8"      | Felt         | XX-206       | 351517-S     |
| 9/16"     | 27/32"          | 1-1/16"          | 3/32"     | Steel        | XX-203-C     | ★376613-S2   |
| 5/8"      | 19/32"          | 7/8"             | 15/32"    | Steel        | XX-203-B     | ★384777-S    |
| 5/8"      | 5/8"            | 1-1/4"           | 1/64"     | Steel        | XX-211       | ★378682-S    |
| 5/8"      | 5/8"            | 1-13/16"         | 3/16"     | Steel        | XX-211-A     | ★351582-S2   |
| 9/16"     | 9/16"           | 7/8"             | 5/8"      | Rubber       | XX-211       | 385681-S     |
| 5/8"      | 41/64"          | 1"               |           | Nylon        | XX-208-B     | ★376659-S    |
| 5/8"      | 41/64"          | 1-7/32"          | 1/8"      | Steel        | XX-210       | ★354198-S    |
| 5/8"      | 41/64"          | 1-3/4"           | 1/32"     | Steel        | XX-207-B     | ★383124-S    |
| 5/8"      | 21/32"          | 1-1/32"          | 3/32"     | Acetal Resin | XX-208-A     | ★382243-S    |
| 5/8"      | 21/32"          | 1-1/8"           | 1/16"     | Steel        | XX-226       | ★356488-S    |
| 5/8"      | 21/32"          | 1-1/8"           | 1/8"      | Steel        | XX-214-A     | ★373781-S    |
| 5/8"      | 11/16"          | 1-1/2"           | 9/64"     | Steel        | XX-132-E     | ★385948-S2   |
| 11/16"    | 23/32"          | 1-3/8"           | 9/32"     | Felt         | XX-224       | 358979-S     |
| 23/32"    | 3/4"            | 1-5/16"          | 7/32"     | Steel        | XX-227       | ★351588-S    |
| 13/32"    | 13/32"          | 3/4"             | 7/64"     | Steel        | XX-228       | 391121-S     |
| 3/4"      | 3/4"            | 1-3/4"           | 1/16"     | Leather      | XX-238-GA    | ★386358-S    |
| 3/4"      | 3/4"            | 2-21/64"         | 5/16"     | Steel        | XX-318       | ★359054-S    |
| 3/4"      | 49/64"          | 1-1/16"          | 1/16"     | Steel        | XX-232       | ★351811-S8   |
| 3/4"      | 49/64"          | 1-1/8"           | 1/16"     | Steel        | XX-232-H     | ★370962-S43B |
| 3/4"      | 49/64"          | 1-1/2"           | 5/32"     | Steel        | XX-232-J     | ★383053-S2   |
| 3/4"      | 25/32"          | 1-3/16"          | 5/32"     | Steel        | XX-237       | ★351521-S    |
| 3/4"      | 25/32"          | 1-1/2"           | 1/8"      | Steel        | XX-238       | 356504-S     |
| 3/4"      | 25/32"          | 1-5/8"           | 1/8"      | Steel        | XX-238-GB    | ★383430-S2   |

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| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | MATERIAL      | LOCATOR CODE | PART NUMBER   |
|-----------|-----------------|------------------|-----------|---------------|--------------|---------------|
| 3/4"      | 25/32"          | 25/16"           | 21/64"    | Steel         | XX-232-F     | ★382675-S     |
| 3/4"      | 51/64"          | 1"               | 3/64"     | Steel         | XX-240       | ★351529-S     |
| 3/4"      | 51/64"          | 2-3/8"           | 3/16"     | Steel         | XX-241       | 379572-S2     |
| 3/4"      | 13/16"          | 1-3/16"          | 1/8"      | Steel         | XX-237-A     | ★389752-S2    |
| 3/4"      | 13/16"          | 1-1/2"           | 1/8"      | Steel         | XX-243       | ★351561-S     |
| 3/4"      | 7/8"            | 1-1/32"          | 3/32"     | Steel         | XX-232-E     | ★375601-S2    |
| 7/8"      | 7/8"            | 27/64"           | 1/32"     | Steel         | XX-253       | ★385954-S     |
| 7/8"      | 7/8"            | 1-1/4"           | 1/16"     | Steel         | XX-242-G     | ★371916-S     |
| 7/8"      | 7/8"            | 1-3/4"           | 1/8"      | Steel         | XX-238-HE    | ★383953-S2    |
| 7/8"      | 57/64"          | 1-1/2"           | 1/64"     | Fibre         | XX-249       | ★371769-S     |
| 7/8"      | 57/64"          | 1-1/2"           | 3/64"     | Fibre         | XX-251       | ★371771-S     |
| 7/8"      | 57/64"          | 1-1/2"           | 1/16"     | Steel         | XX-252       | ★371681-S8    |
| 7/8"      | 29/32"          | 1-7/64"          | 3/64"     | Steel         | XX-254       | ★354398-S     |
| 7/8"      | 29/32"          | 1-5/8"           | 11/64"    | Steel         | XX-256       | 372632-S      |
| 7/8"      | 29/32"          | 1-7/8"           | 3/16"     | Steel         | XX-242       | ★354449-S     |
| 7/8"      | 15/16"          | 1-13/64"         | 1/16"     | Steel         | XX-242-C     | ★378559-S     |
| 1"        | 1"              | 1-1/2"           | 5/64"     | Steel         | XX-255-G     | ★384272-S     |
| 1"        | 1"              | 2"               | 1/8"      | Bronze        | XX-258       | ★359564-S     |
| 1"        | 1-1/16"         | 1-13/16"         | 3/16"     | Steel         | XX-266       | ★356528-S8    |
| 1-1/8"    | 1-9/64"         | 1-3/8"           | 1/32"     | Copper        | XX-268       | ★351204-S     |
| 1-5/32"   | 1-5/32"         | 2"               | 1/8"      | Bronze        | XX-270       | ★359563-S     |
| 1-1/4"    | 1-9/32"         | 2-1/4"           | 1/32"     | Bronze        | XX-281-B     | ★374464-S     |
| 1-5/16"   | 1-21/64"        | 2-1/2"           | 1/8"      | Steel         | XX-280       | ★354265-S18   |
| 1-5/16"   | 1-21/64"        | 3-7/32"          | 1/4"      | Steel         | XX-280-G     | ★385795-S2    |
| 1-5/16"   | 1-11/32"        | 2-1/2"           | 1/4"      | Steel         | XX-267-E     | 389117-S2     |
| 1-7/16"   | 1-1/2"          | 1-53/64"         | 1/32"     | Nylon         | XX-281-F     | ★376253-S     |
| 1-1/2"    | 1-17/32"        | 2"               | 1/16"     | Steel         | XX-282       | ★371453-S7-8  |
| 1-3/4"    | 1-3/4"          | 2-27/32"         | 1/32"     | Steel         | XX-282-A     | ★386984-S     |
| 1-63/64"  | 2"              | 2-7/8"           | 1/4"      | Steel         | XX-287       | ★372676-S     |
| Metric    |                 |                  |           |               |              |               |
| —         | 2.5mm           | 14.0mm           | 1.5mm     | Steel         | XX-282-B     | W703126-S36   |
| —         | 12.2mm          | 17.9mm           | 1.5mm     |               | AX-14-D      | W700762-S300  |
| —         | 13.3mm          | 60mm             | 9.2mm     | Steel         | AX-14-ET     | W708210-S426  |
| 2mm       | 13mm            | 33mm             | 3.6mm     | Steel         | AX-14-DI     | N800916-S100  |
| 3mm       | 3.2mm           | 12.7mm           | 7.0mm     | Rubber        | AX-34-A      | ★E834201-S    |
| 3mm       | 3.6mm           | 16mm             | 1.5mm     | Steel         | AX-34-C      | ★E830828-S71  |
| 4mm       | 4mm             | 8mm              | 0.6mm     | Plastic       | AX-34-D      | ★E834109-S    |
| 4mm       | 4.3mm           | 9mm              | 0.8mm     | Steel         | AX-34-B      | E630020-S71   |
| 4mm       | 4mm             | 8mm              | 4mm       | Steel         | AX-34-E      | ★E630315-S71  |
| 4mm       | 4mm             | 16mm             | 1.1mm     | Steel         | AX-14-BK     | ★E803326-S2   |
| 4mm       | 4.4mm           | 8mm              | 1.1mm     | Steel         | AX-14-BE     | ★N630065-S    |
| 4mm       | 4.5mm           | 9.5mm            | 1mm       | Fibre         | AX-6-G       | ★116271-ES    |
| 4.8mm     | 4.48mm          | 12mm             | 1.1mm     | Plastic       | WF-10        | W709975-S437  |
| 4.8mm     | 4.8mm           | 15.3mm           | 0.508mm   | Polypropylene | WF-1         | W709205-S300  |
| 5mm       | 5.3mm           | 10mm             | 1mm       | Steel         | AX-7-HA      | ★E630021-S71  |
| 5mm       | 5.3mm           | 10mm             | 1mm       | Steel         | AX-7-HE      | ★E630021-S205 |
| 5mm       | 5.3mm           | 10mm             | 1mm       | Steel         | AX-7-HG      | ★E630021-S208 |
| 5mm       | 5.3mm           | 10mm             | 1mm       | Steel         | AX-7-H       | ★E830107-S100 |
| 5mm       | 5.3mm           | 13mm             | 1.5mm     | Steel         | AX-7-HB      | ★E630022-S201 |
| 5mm       | 5.3mm           | 15mm             | 0.80mm    | Steel         | AX-7-HC      | ★E803293-S71  |
| 5mm       | 5.3mm           | 15mm             | 1.5mm     | Steel         | AX-7-M       | ★E630022-S74  |
| 5mm       | 5.3mm           | 15mm             | 2mm       | Steel         | AX-7-Q       | ★E630023-S71  |
| 5mm       | 5.3mm           | 20.5mm           | .8mm      |               | AX-7-HF      | ★E830070-S74  |
| 5mm       | 5.5mm           | 16mm             | 3mm       | Mastic Seal   | AX-7-HH      | ★N805203-S    |
| 6mm       | 5.5mm           | 14mm             | 1.5mm     | Steel         | AX-7-K       | ★E834065-S    |
| 5mm       | 5.7mm           | 19.5mm           | 1.1mm     | Steel         | AX-7-G       | ★N801919-S2   |
| 6mm       | 6.4mm           | 12mm             | 1.5mm     | Steel         | AX-10-B      | E630024-S74   |
| 6mm       | 6.4mm           | 12mm             | 1.5mm     | Steel         | AX-10-B      | ★E630024-S201 |
| 6mm       | 6.4mm           | 12.7mm           | 1.5mm     | Plastic       | AX-10-BA     | ★E834112-S    |
| 6mm       | 6.4mm           | 14mm             | 1.0mm     | Steel         | AX-10-BB     | ★E830120-S74  |
| 6mm       | 6.4mm           | 17mm             | 2.5mm     | Steel         | AX-10-A      | ★E630025-S71  |

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| Metric (Cont'd) |                 |                  |           |             |              |                |
|-----------------|-----------------|------------------|-----------|-------------|--------------|----------------|
| BOLT SIZE       | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | MATERIAL    | LOCATOR CODE | PART NUMBER    |
| 6mm             | 6.4mm           | 19mm             | 3.5mm     | Steel       | AX-10-F      | ★ E630026-S74  |
| 6mm             | 6.4mm           | 25mm             | 1.5mm     | Steel       | AX-10-G      | ★ E830086-S71  |
| 6mm             | 6.4mm           | 25mm             | 1.5mm     | Steel       | AX-10-E      | ★ E830086-S205 |
| 6mm             | 6.6mm           | 20mm             | 1.5mm     | Steel       | AX-7-HD      | ★ E830104-S71  |
| 6mm             | 6.7mm           | 12mm             | 1.45mm    | Steel       | AX-10-C      | N630067-S39    |
| 6.7mm           | 13.25mm         | 39.25mm          | 7.35mm    | Steel       | AX-9-E       | W701511-S      |
| 7.24mm          | 7.3mm           | 19mm             | 1.1mm     | Steel       | AX-9-F       | ★ N802230-S2   |
| 8mm             | 5.3mm           | 20.5mm           | 0.8mm     | Steel       | AX-7-S       | ★ N830070-S74  |
| 8mm             | 8mm             | 16mm             | .5mm      | Steel       | AX-13-BH     | ★ E830808-S100 |
| 8mm             | 8mm             | 20mm             | 5.5mm     | Plastic     | AX-13-BN     | N805458-S      |
| 8mm             | 8.0mm           | 25mm             | 8.0mm     | Mastic      | AX-13-BNA    | W707572-S300   |
| 8mm             | 8.1mm           | 17.5mm           | 1.5mm     | Plastic     | AX-13-BJ     | ★ E834226-S    |
| 8mm             | 8.1mm           | 38.35mm          | 2.74mm    | Steel       | AX-7-T       | ★ N802905-S    |
| 8mm             | 8.4mm           | 17mm             | 2mm       | Steel       | AX-7-U       | ★ E630027-S71  |
| 8mm             | 8.4mm           | 17mm             | 2mm       | Steel       | AX-7-A       | ★ E630027-S101 |
| 8mm             | 8.4mm           | 19mm             | 3mm       | Steel       | AX-13-BF     | E630028-S71    |
| 8mm             | 8.4mm           | 19mm             | 3mm       | Steel       | AX-13-BG     | ★ E630028-S72  |
| 8mm             | 8.4mm           | 19mm             | 3mm       | Steel       | AX-13-BB     | ★ E830655-S76  |
| 8mm             | 8.4mm           | 22mm             | 4mm       | Steel       | AX-13-B      | ★ E630029-S71  |
| 8mm             | 8.4mm           | 25mm             | 2mm       | Steel       | AX-13-BC     | ★ E830046-S71  |
| 8mm             | 8.4mm           | 25mm             | 4mm       | Steel       | AX-13-BA     | ★ E630030-S71  |
| 8mm             | 8.4mm           | 40mm             | 4mm       | Steel       | AX-13-C      | ★ E830407-S71  |
| 8mm             | 8.5mm           | 12.3mm           | 1.9mm     | Rubber      | AX-13-G      | ★ E834019-S    |
| 8mm             | 9mm             | 17mm             | 2mm       | Steel       | AX-13-BD     | N630068-S2     |
| 8mm             | 9mm             | 17mm             | 2mm       | Steel       | AX-13-BE     | ★ N630068-S72  |
| 8mm             | 9mm             | 17mm             | 2.25mm    | Steel       | AX-13-BM     | N630068-S2     |
| 8mm             | 9mm             | 17mm             | 2.25mm    | Steel       | AX-13-BK     | N630087-S2     |
| 8mm             | 9.92mm          | 19.81mm          | 2.03mm    | Steel       | AX-13-BL     | 391683-S2      |
| 8.2mm           | 8.2mm           | 14.6mm           | .35mm     | Aluminum    | AX-13-BP     | W705943        |
| 8.5mm           | 8.5mm           | 36.5mm           | 2.7mm     | Steel       | AX-13-M      | ★ N802976-S2   |
| 9mm             | 8.2mm           | 12.7mm           | 0.76mm    | Steel       | AX-13-A      | ★ E830256-S100 |
| 9mm             | 8.2mm           | 16.5mm           | 2.2mm     | Steel       | AX-13-J      | ★ N800178-S2   |
| 9mm             | 8.5mm           | 17mm             | 8mm       | Steel       | AX-19-C      | ★ E830207-S71  |
| 9mm             | 8.5mm           | 30mm             | 2.5mm     | Steel       | AX-19-F      | ★ E830033-S71  |
| 9mm             | 9mm             | 16mm             | 1.4mm     | Steel       | AX-16-BP     | N808892-S36    |
| 9mm             | 9mm             | 17mm             | 2.25mm    | Steel       | AX-16-BQ     | N630087-S36    |
| 9mm             | 10mm            | 32mm             | 3.0mm     | Steel       | AX-16-G      | N801256-S2     |
| 9.2mm           | 10mm            | 30mm             | 3mm       | Steel       | AX-16-H      | ★ N801854-S2   |
| 9.5mm           | 9.5mm           | 29mm             | 2.5mm     | Rubber      | AX-16-K      | N802559-S      |
| 9.5mm           | 9.5mm           | 30mm             | 1.8mm     | Steel       | AX-16-J      | ★ N802100-S100 |
| 10mm            | 9.6mm           | 13.5mm           | 1.5mm     | Steel       | AX-13-L      | ★ E830624-S76  |
| 10mm            | 9.7mm           | 17.6mm           | 3mm       | Plastic     | AX-16-M      | ★ E834042-S    |
| 10mm            | 10mm            | 22mm             | 0.8mm     | Aluminum    | AX-14        | ★ E830124-S    |
| 10mm            | 10mm            | 40mm             | 20mm      | Steel       | AX-14-DC     | ★ E830282-S71  |
| 10mm            | 10.4mm          | 22mm             | 5mm       | Steel       | AX-14-DL     | ★ N801242-S    |
| 10mm            | 10.5mm          | 17.5mm           | .9mm      | 9           | AX-41        | ★ N630359-S36  |
| 10mm            | 10.5mm          | 20mm             | 2.5mm     | Steel       | AX-14-EH     | ★ E630031-S101 |
| 10mm            | 10.5mm          | 25mm             | 3mm       | Steel       | AX-14-D      | E630032-S71    |
| 10mm            | 10.5mm          | 30mm             | 4mm       | Steel       | AX-14-DV     | E630033-S71    |
| 10mm            | 10.5mm          | 35mm             | 1.65mm    | Fibre       | AX-41-A      | N805583-S      |
| 10mm            | 10.7mm          | 25.9mm           | .76mm     | Steel       | AX-14-CX     | ★ N806309-S2   |
| 10mm            | 11mm            | 20mm             | 2mm       | Steel       | AX-14-DA     | N630088-S2     |
| 10mm            | 11mm            | 20.5mm           | 2mm       | Steel       | AX-14-DF     | N630069-S39    |
| 10mm            | 11mm            | 20.5mm           | 2mm       | Steel       | AX-14-DF     | N630069-S301   |
| 10mm            | 11.7mm          | 35mm             | 1.66mm    | Fiber Board | AX-14-ZA     | W707917-SA     |
| 10.5mm          | 10.5mm          | 16mm             | 1.6mm     | Steel       | AX-14-CY     | W702046-S309   |
| 11mm            | 10.5mm          | 35.1mm           | 4mm       | Steel       | AX-14-DB     | ★ E830118-S71  |
| 11mm            | 11.7mm          | 38mm             | 1.65mm    | Fibre       | AX-14-CS     | N805584-S      |
| 11mm            | 11.16mm         | 22mm             | 2.15mm    | Aluminum    | AX-14-DS     | ★ N802364-S    |
| 11mm            | 12mm            | 25mm             | 2.75mm    | Steel       | AX-14-DP     | ★ N801533-S    |
| 11.4mm          | 11.4mm          | 60mm             | 9.2mm     | Steel       | AX-14-ZZ     | ★ W707269-S301 |
| 11.11mm         | 11.11mm         | 25.4mm           | 2.3mm     | Steel       | AX-14-DT     | ★ N802702-S2   |

(continued)

# Standard and Utility Parts Catalog

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WASHER — FLAT (Cont'd)

| Metric (Cont'd) |                 |                  |           |          |              |                |
|-----------------|-----------------|------------------|-----------|----------|--------------|----------------|
| BOLT SIZE       | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | MATERIAL | LOCATOR CODE | PART NUMBER    |
| 11.11mm         | 11.51mm         | 19.81mm          | 4.83mm    | Steel    | AX-14-DY     | ★391797-S      |
| 12mm            | 12mm            | 23mm             | 3mm       | Steel    | AX-14-DY     | ★N830125-S72   |
| 6mm             | 6.4mm           | 19mm             | 3.5mm     | Steel    | AX-10-F      | ★E630026-S74   |
| 6mm             | 6.4mm           | 25mm             | 1.5mm     | Steel    | AX-10-G      | ★E830086-S71   |
| 12mm            | 12mm            | 24mm             | 2.75mm    | Steel    | AX-14-DK     | ★N801407-S     |
| 12mm            | 12mm            | 35mm             | 4mm       | Steel    | AX-14-DM     | ★N801720-S2    |
| 12mm            | 12mm            | 48.3mm           | 4.8mm     | Steel    | AX-14-EN     | N806352-S36    |
| 12mm            | 12mm            | 60mm             | 4.8mm     | Steel    | AX-14-EE     | ★N801297-S52   |
| 12mm            | 12.1mm          | 30mm             | 1.55mm    | Steel    | AX-14-DU     | N801616-S2     |
| 12mm            | 12.2mm          | 20mm             | 1.7mm     | Steel    | AX-14-DZ     | ★E830687-S71   |
| 12mm            | 12.2mm          | 25.5mm           | 2mm       | Steel    | AX-14-DW     | ★E830851-S71   |
| 12mm            | 12.2mm          | 35mm             | 2mm       | Steel    | AX-14-DX     | N803447-S7M    |
| 12mm            | 12.5mm          | 56.0mm           | 2.5mm     | Steel    | AX-14-DQ     | N802552-S2     |
| 12mm            | 12.8mm          | 24mm             | 2.75mm    | Steel    | AX-14-DN     | N630070-S2     |
| 12mm            | 13mm            | 33mm             | 3.6mm     | Steel    | AX-14-DG     | ★N800916-S2    |
| 12mm            | 13mm            | 35mm             | 5mm       | Steel    | AX-14-DE     | ★E630036-S71   |
| 12mm            | 13mm            | 45mm             | 3.5mm     | Steel    | AX-14-DH     | ★N800861-S     |
| 12.4mm          | 12.4mm          | 45mm             | 2.03mm    | Steel    | AX-14-EJ     | N804001-S100   |
| 12.4mm          | 12.4mm          | 45mm             | 2.03mm    | Steel    | AX-14-ES     | N804001-S301   |
| 12.5mm          | 12.5mm          | 75mm             | 3mm       | Steel    | AX-14-EF     | N801201-S2     |
| 13mm            | 13mm            | 24mm             | 3mm       | Steel    | AX-14-EP     | ★W700413-S3092 |
| 13mm            | 13mm            | 30mm             | 24mm      | Steel    | AX-14-DJ     | ★N801382-S2    |
| 13mm            | 13mm            | 30mm             | 24mm      | Steel    | AX-14-EB     | ★N801382-S2    |
| 13mm            | 13mm            | 35mm             | 5mm       | Steel    | AX-14-EC     | ★U800834-S2    |
| 13mm            | 13mm            | 30mm             | 4mm       | Steel    | AX-14-DD     | ★E630035-S71   |
| 13mm            | 13mm            | 47mm             | 5mm       | Steel    | AX-14-ER     | W700226-S309   |
| 13mm            | 13mm            | 48mm             | 5mm       | Steel    | AX-14-AZ     | N802289-S426   |
| 13mm            | 13.23mm         | 33mm             | 2.5mm     | Steel    | AX-14-EQ     | N801527-S2     |
| 13mm            | 13.50mm         | 31mm             | 4mm       |          | AX-14-ED     | ★U800875-S2    |
| 14mm            | 14.8mm          | 30mm             | 3.30mm    | Steel    | AX-14-F      | N630090-S2     |
| 14.3mm          | 12.3mm          | 48.0mm           | 5.0mm     | —        | AX-14-EU     | W709031-S300   |
| 15mm            | 15mm            | 31.5mm           | 2.2mm     | Nylon    | AX-14-J      | N802599-S      |
| 16mm            | 16mm            | 60mm             | 3mm       | Steel    | AX-14-GB     | N804018-S36M   |
| 16mm            | 16.2mm          | 45.0mm           | 3mm       | Steel    | AX-14-A      | W710426-S441   |
| 16mm            | 16.5mm          | 25.5mm           | 1.5mm     | Steel    | AX-14-GA     | E830290-S71    |
| 16.2mm          | 16.2mm          | 54mm             | 7.5mm     | Steel    | AX-14-ZW     | N811322-S100   |
| 16.3mm          | 16.3mm          | 25mm             | 3.5mm     | Steel    | AX-14-GD     | W700842-S309   |
| 16.4mm          | 16.4mm          | 40.25mm          | 5.0mm     | Steel    | AX-14-GE     | N811585-S100   |
| 20mm            | 20mm            | 31mm             | 1.3mm     | Steel    | AX-16-Q      | N805381-S100   |
| 20mm            | 20mm            | 37mm             | 3.8mm     | Steel    | AX-16-R      | N630092-S309   |
| 20mm            | 20mm            | 40mm             | 5mm       | Steel    | AX-16-B      | N801338-S102   |
| 20mm            | 20mm            | 48mm             | 2mm       | Steel    | AX-16-L      | W710844-S440   |
| 20mm            | 20.5mm          | 42mm             | 3mm       | Steel    | AX-16-L      | ★N804204-S7    |
| 20.4mm          | 16mm            | 38.3mm           | 3mm       | Flat     | AX-16-N      | N807466-S      |
| 21mm            | 21mm            | 50mm             | 2mm       | Steel    | AX-14-EM     | W709780-S900   |
| 23mm            | 23mm            | 30mm             | 1.0mm     | Rubber   | AX-17-A      | E834047-S      |

PH-186

WASHER — LOCK — EXTERNAL TOOTH



PH186

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | MATERIAL | LOCATOR CODE | PART NUMBER |
|-----------|-----------------|------------------|-----------|----------|--------------|-------------|
| 1/2"      | .267            | .475             | .026      | —        | XX-291       | 34944-S301  |

## Metric

|    |       |         |       |       |         |             |
|----|-------|---------|-------|-------|---------|-------------|
| M8 | 8.5mm | 15.50mm | .85mm | Steel | AX-35-H | ★N630318-S2 |
|----|-------|---------|-------|-------|---------|-------------|

## PH-190 WASHER — LOCK — INTERNAL and EXTERNAL TOOTH



PH190

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | NO. TEETH OUTSIDE | NO. TEETH INSIDE | LOCATOR CODE | PART NUMBER |
|-----------|-----------------|------------------|-----------|-------------------|------------------|--------------|-------------|
|-----------|-----------------|------------------|-----------|-------------------|------------------|--------------|-------------|

## PH-191 WASHER — LOCK — SPLIT RING



PH191

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS* | MATERIAL | LOCATOR CODE | PART NUMBER |
|-----------|-----------------|------------------|------------|----------|--------------|-------------|
| 25/64"    | 25/64"          | 11/16"           | 3/32"      | Steel    | XX-307       | 391122-S    |
| 5/8"      | 43/64"          | 63/64"           | 5/64"      | Steel    | XX-306       | ★351496-S   |

### Metric

|     |         |         |       |       |         |               |
|-----|---------|---------|-------|-------|---------|---------------|
| M6  | 6.2mm   | 13.6mm  | 2.1mm | Steel | AX-37   | N801723-S2    |
| M6  | 6.5mm   | 14.3mm  | 1.8mm | Steel | AX-37-B | E832108-S71M  |
| M8  | 8.2mm   | 14.2mm  | 2mm   | Steel | AX-36-F | ★E630173-S71  |
| M8  | 8.2mm   | 14.2mm  | 2mm   | Steel | AX-36-G | ★E630173-S71M |
| M10 | 10.25mm | 18.02mm | 2.9mm | Steel | AX-32-D | N630174-S2    |

\* When Compressed

## PH-195 WASHER — SPRING



TYPE 1



TYPE 2



TYPE 3

PH-195

| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS | TYPE | MATERIAL | LOCATOR CODE | PART NUMBER |
|-----------|-----------------|------------------|-----------|------|----------|--------------|-------------|
| 5/16"     | 11/32"          | 9/16"            | 1/64"     | 1    | Bronze   | XX-361       | ★356600-S   |
| 1"        | 1-1/32"         | 1-3/16"          | 3/64"     | 1    | Nylon    | XX-364-Y     | ★381781-S   |
| 3/16"     | 3/16"           | 7/16"            | 1/64"     | 2    | Steel    | XX-368       | ★372395-S   |
| 5/16"     | 3/8"            | 25/32"           | 1/64"     | 2    | Steel    | XX-352       | 351467-S    |
| 5/8"      | 23/32"          | 1"               | 1/64"     | 2    | Steel    | XX-355-A     | 353574-S36M |
| 3/4"      | 25/32"          | 1-1/8"           | 1/64"     | 2    | Steel    | XX-359       | ★351560-S7  |
| 1"        | 1-1/16"         | 1-35/64"         | 3/64"     | 2    | Nylon    | XX-365-B     | 382852-S    |
| 5/8"      | 11/16"          | 7/8"             | 1/8"      | 3    | Steel    | XX-354-G     | ★390799-S2  |

### Metric

|     |       |        |       |   |       |         |               |
|-----|-------|--------|-------|---|-------|---------|---------------|
| M8  | 8mm   | 14mm   | .32mm | 2 | Steel | AX-5-D  | ★N802341-S2   |
| M8  | 8.4mm | 15mm   | 2.5mm | 2 | Steel | AX-5-F  | ★E836017-S100 |
| M20 | 22mm  | 27.5mm | .38mm | 2 | Steel | AX-5-E  | ★N800904-S7M  |
| M20 | 22mm  | 27.5mm | .38mm | 2 | Steel | AX-5-EA | N800904-S301  |

## PH-197 WASHER — WEDGE



PH197

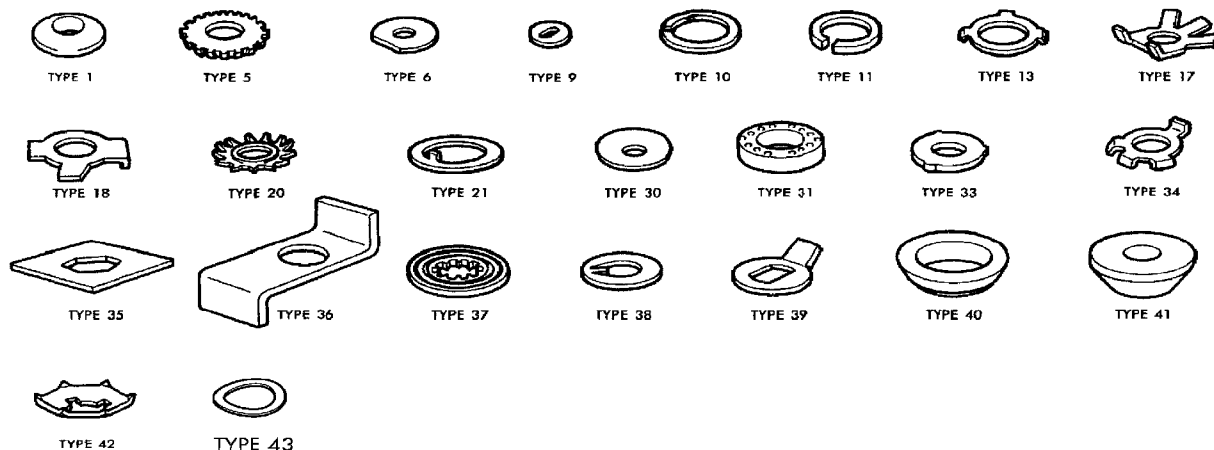
| BOLT SIZE | INSIDE DIAMETER | OUTSIDE DIAMETER | THICKNESS    | LOCATOR CODE | PART NUMBER |
|-----------|-----------------|------------------|--------------|--------------|-------------|
| 7/16"     | 1/2"            | 13/16"           | 17/64"x1/32" | XX-374       | ★356703-S8  |



# Standard and Utility Parts Catalog

PH-193

WASHER — SPECIAL

PH-193  
12/01/2003

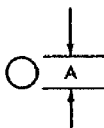
| INSIDE DIAMETER or HOLE SIZE | SHAPE                   | TYPE | MATERIAL | LOCATOR CODE | PART NUMBER |
|------------------------------|-------------------------|------|----------|--------------|-------------|
| 13/32"                       | 3/4" Wide 5 Prongs      | 17   | Steel    | XX-345       | ★370383-S   |
| 13/32"                       | 1-1/2" Wide 5 Prongs    | 17   | Steel    | XX-345-B     | ★378881-S   |
| 37/64"                       | 7/8" O.D.-3/8" thick    | 31   | Steel    | XX-373-A     | 387194-S    |
| 3/4"                         | 1-1/8" Wide 4 Prongs    | 34   | Steel    | XX-340-AF    | ★373644-S8  |
| 5/16"                        | 23/32" O.D.-23/64" I.D. | 35   | Steel    | XX-377-G     | ★387135-S   |
| 1-1/2"                       | Round                   | 38   | Steel    | XX-373       | ★385603-S2  |
| 1/4"                         | Round                   | 40   | Nylon    | XX-379       | 373387-S    |

## Metric

|               |                                |    |         |         |               |
|---------------|--------------------------------|----|---------|---------|---------------|
| 9.4mm x 5.0mm | Round 1.5mm Thick              | 9  | Nylon   | AX-46-B | ★U800905-S    |
| 25mm x 13mm   | 48mm                           | 9  | Steel   | AX-46-A | N802289-S2    |
| 23.77mm       | 32.51mm O.D. split flat washer | 11 | Nylon   | AX-46   | ★N802714-S    |
| 6.62mm        | 11mm                           | 20 | Steel   | AX-42-G | ★E630317-S71M |
| 8.42mm        | 14mm                           | 20 | Steel   | AX-42-F | ★E630318-S71M |
| 10mm          | 32mm Round Dished              | 30 | Steel   | AX-43-C | ★N800498-S2   |
| 24.0mm        | 1.0 thick                      | 35 | Steel   | AX-45-A | ★N807084-S    |
| 20mm          | 3mm thick-inside tang          | 38 | Steel   | AX-53-F | ★N802694-S    |
| 5.2mm         | 11mm thick-Cone                | 41 | Plastic | AX-56-H | ★E836090-S    |
| 13mm          | 4.6mm                          | 42 | Steel   | AX-57   | ★N801194-S2   |
| 14.5mm        | 14.5x59x2.6 Cup                | 42 | Steel   | AX-57-A | N804232-S100  |
| 15.95mm       | 21.5x0.3 thick-Bowed           | 43 | Steel   | AX-55-E | W710195-S300  |

PH-774

BALL — STEEL

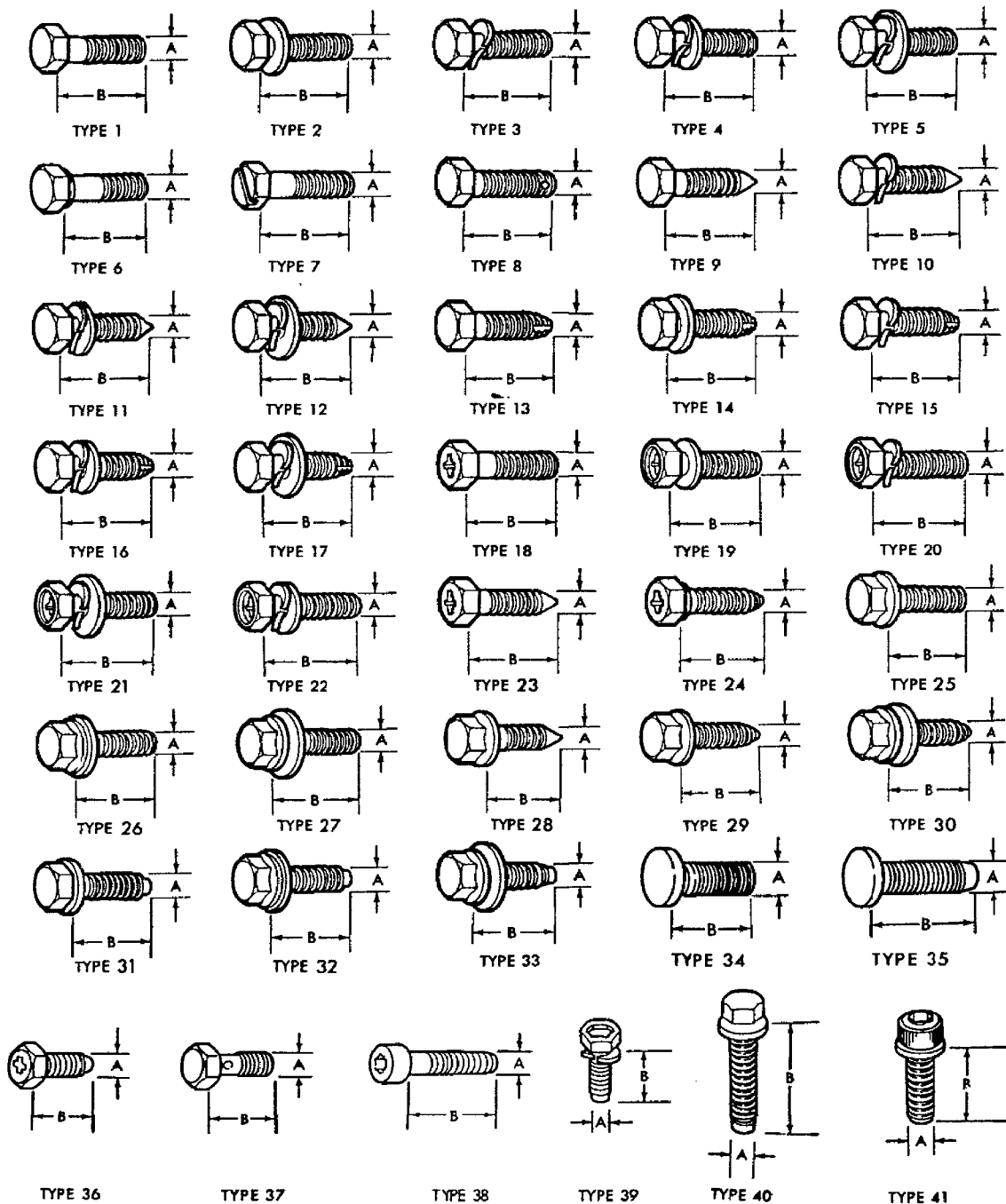


TYPE 1 PH-774

| A     | TYPE | LOCATOR CODE | PART NUMBER |
|-------|------|--------------|-------------|
| 3.9mm | 1    | JA-1-D       | ★99611-1250 |
| 4.7mm | 1    | JA-1         | ★99611-1500 |
| 5.5mm | 1    | JA-1-A       | ★99611-1750 |
| 6.3mm | 1    | JA-1-B       | 99611-2000  |
| 7.9mm | 1    | JA-1-C       | 99611-2500  |

PH-770

BOLT



PH-770

(continued)

**BOLT (Cont'd)**

(continued)

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PH-770

BOLT (Cont'd)

| A    | B     | TYPE | LOCATOR CODE | PART NUMBER  |
|------|-------|------|--------------|--------------|
| 6mm  | 25mm  | 25   | JB-25-D      | 99796-0625   |
| 6mm  | 25mm  | 25   | JB-25-AC     | ★99784-0625B |
| 6mm  | 30mm  | 25   | JB-25-E      | ★99796-0630  |
| 6mm  | 35mm  | 25   | JB-25-F      | ★99796-0635  |
| 6mm  | 55mm  | 25   | JB-25-FG     | ★95026-06055 |
| 6mm  | 23mm  | 25   | JB-43        | ★90105-06565 |
| 6mm  | 30mm  | 25   | JB-44        | ★90105-06566 |
| 6mm  | 48mm  | 25   | JB-45        | ★90105-06567 |
| 6mm  | 83mm  | 25   | JB-42        | ★90105-06568 |
| 8mm  | 12mm  | 25   | JB-25-G      | 99796-0812   |
| 8mm  | 12mm  | 25   | JB-25-GA     | ★99784-0812  |
| 8mm  | 16mm  | 25   | JB-25-H      | ★99796-0816  |
| 8mm  | 16mm  | 25   | JB-25-HA     | ★99756-0816  |
| 8mm  | 20mm  | 25   | JB-25-J      | ★99796-0820  |
| 8mm  | 20mm  | 25   | JB-25-JA     | ★99784-0820B |
| 8mm  | 20mm  | 25   | JB-25-JB     | ★90105-08539 |
| M8   | 20mm  | 25   | JB-25-K      | 01125-0012U  |
| 8mm  | 25mm  | 25   | JB-25-K      | ★99796-0825  |
| 8mm  | 25mm  | 25   | JB-25-AK     | ★99784-0825  |
| 8mm  | 30mm  | 25   | JB-25-KE     | 99784-0830   |
| 8mm  | 35mm  | 25   | JB-25-L      | ★99796-0835  |
| 8mm  | 35mm  | 25   | JB-25-LA     | ★99784-0835B |
| 8mm  | 40mm  | 25   | JB-25-AJ     | ★99796-0840  |
| 8mm  | 45mm  | 25   | JB-25-M      | ★99796-0845  |
| 8mm  | 50mm  | 25   | JB-25-MC     | ★99796-0850  |
| 8mm  | 50mm  | 25   | JB-25-ME     | 99784-0850   |
| 8mm  | 55mm  | 25   | JB-25-MF     | ★99784-0855  |
| 8mm  | 70mm  | 25   | JB-25-MJ     | ★99796-0870  |
| 8mm  | 75mm  | 25   | JB-25-N      | ★99796-0875  |
| 10mm | 12mm  | 25   | JB-25-PA     | ★99796-1012  |
| 10mm | 16mm  | 25   | JB-25-AD     | ★99784-1016  |
| 10mm | 16mm  | 25   | JB-25-P      | ★99796-1016  |
| 10mm | 20mm  | 25   | JB-25-AF     | ★99756-1020  |
| 10mm | 22mm  | 25   | JB-25-AU     | W704332-S309 |
| 10mm | 25mm  | 25   | JB-25-R      | ★99796-1025  |
| 10mm | 25mm  | 25   | JB-25-RA     | ★99784-1025  |
| 10mm | 30mm  | 25   | JB-25-S      | ★99796-1030  |
| 10mm | 35mm  | 25   | JB-25-T      | 99796-1035   |
| 10mm | 40mm  | 25   | JB-25-U      | 99796-1040   |
| 10mm | 45mm  | 25   | JB-25-UE     | ★99784-1045  |
| 10mm | 50mm  | 25   | JB-25-V      | 99796-1050   |
| 10mm | 50mm  | 25   | JB-25-VA     | ★99784-1050B |
| 10mm | 55mm  | 25   | JB-25-W      | ★99796-1055  |
| 10mm | 60mm  | 25   | JB-25-WE     | 99784-1060   |
| 10mm | 65mm  | 25   | JB-25-WG     | ★99756-1065  |
| 10mm | 65mm  | 25   | JB-25-WH     | ★99796-1065  |
| 10mm | 70mm  | 25   | JB-25-X      | ★99796-1070  |
| 10mm | 75mm  | 25   | JB-25-XE     | 99756-1075   |
| 10mm | 90mm  | 25   | JB-25-AM     | ★99796-1090  |
| 10mm | 90mm  | 25   | JB-25-AN     | ★99756-1090  |
| 10mm | 95mm  | 25   | JB-25-Y      | ★99796-1095  |
| 10mm | 120mm | 25   | JB-25-YE     | ★99800-10120 |
| 10mm | 150mm | 25   | JB-25-YF     | ★99800-10150 |
| 12mm | 25mm  | 25   | JB-25-ZA     | ★99756-1225  |
| 12mm | 30mm  | 25   | JB-25-AG     | ★99756-1230  |
| 12mm | 40mm  | 25   | JB-25-AU     | ★99784-1240S |
| 12mm | 50mm  | 25   | JB-25-AS     | ★99796-1250  |
| 12mm | 60mm  | 25   | JB-25-Z      | ★99796-1260  |
| 12mm | 65mm  | 25   | JB-25-ZE     | ★99756-1265  |
| 14mm | 50mm  | 25   | JB-25-ZG     | ★99796-1450  |
| 14mm | 60mm  | 25   | JB-25-ZJ     | ★99796-1460  |
| 14mm | 65mm  | 25   | JB-25-ZH     | ★99796-1465  |
| 14mm | 80mm  | 25   | JB-25-ZK     | ★99796-1480  |

(continued)

|        |  |               |  |      |                                    |  |               |  |  |
|--------|--|---------------|--|------|------------------------------------|--|---------------|--|--|
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| PH-770 |  | BOLT (Cont'd) |  |      |                                    |  |               |  |  |
| A      |  | B             |  | TYPE | LOCATOR CODE                       |  | PART NUMBER   |  |  |
| 14mm   |  | 95mm          |  | 25   | JB-25-ZL                           |  | ★ 99796-1495  |  |  |
| 14mm   |  | 105mm         |  | 25   | JB-25-ZM                           |  | ★ 99800-14105 |  |  |
| 5mm    |  | 35mm          |  | 26   | JB-26-AE                           |  | ★ 90105-05540 |  |  |
| 6mm    |  | 8mm           |  | 26   | JB-26                              |  | ★ 907960-608  |  |  |
| 6mm    |  | 10mm          |  | 26   | JB-26-E                            |  | ★ 907960-610  |  |  |
| 6mm    |  | 12mm          |  | 26   | JB-26-A                            |  | ★ 907960-612  |  |  |
| 6mm    |  | 12mm          |  | 26   | JB-26-AA                           |  | ★ 90105-06531 |  |  |
| 6mm    |  | 12mm          |  | 26   | JB-26-B                            |  | ★ 907960-612B |  |  |
| 6mm    |  | 16mm          |  | 26   | JB-26-C                            |  | 907960-616    |  |  |
| 6mm    |  | 16mm          |  | 26   | JB-26-D                            |  | ★ 907962-616  |  |  |
| 6mm    |  | 20mm          |  | 26   | JB-26-DB                           |  | ★ 90105-06516 |  |  |
| 8mm    |  | 10mm          |  | 26   | JB-26-DC                           |  | ★ 90105-08512 |  |  |
| 8mm    |  | 16mm          |  | 26   | JB-26-G                            |  | ★ 907960-816  |  |  |
| 8mm    |  | 18mm          |  | 26   | JB-26-FA                           |  | ★ 90105-08534 |  |  |
| 8mm    |  | 20mm          |  | 26   | JB-26-F                            |  | ★ 907840-820  |  |  |
| 8mm    |  | 20mm          |  | 26   | JB-26-FB                           |  | ★ 907842-820  |  |  |
| 8mm    |  | 25mm          |  | 26   | JB-26-H                            |  | ★ 90105-08532 |  |  |
| 8mm    |  | 25mm          |  | 26   | JB-26-HA                           |  | ★ 90105-08542 |  |  |
| 8mm    |  | 25mm          |  | 26   | JB-26-HB                           |  | ★ 90105-08533 |  |  |
| 8mm    |  | 40mm          |  | 26   | JB-26-L                            |  | ★ 90105-08536 |  |  |
| 8mm    |  | 60mm          |  | 26   | JB-26-N                            |  | ★ 90105-08511 |  |  |
| 10mm   |  | 20mm          |  | 26   | JB-26-R                            |  | ★ 90105-10510 |  |  |
| 10mm   |  | 100mm         |  | 26   | JB-26-T                            |  | ★ 90105-10517 |  |  |
| M6     |  | 29mm          |  | 27   | JB-27-E                            |  | 01436-0014U   |  |  |
| 12mm   |  | 34mm          |  | 27   | JB-25-ZP                           |  | W709667-S301  |  |  |
| 13mm   |  | 35mm          |  | 27   | JB-25-ZN                           |  | N808768-S36   |  |  |
| 6mm    |  | 16mm          |  | 28   | JB-28                              |  | ★ 99780-0616  |  |  |
| 8mm    |  | 25mm          |  | 28   | JB-28-A                            |  | 99780-0825    |  |  |
| 9.3mm  |  | 35mm          |  | 28   | JB-28-AA                           |  | W706899-S301  |  |  |
| 10mm   |  | 20mm          |  | 28   | JB-28-E                            |  | ★ 99780-1020  |  |  |
| 10mm   |  | 35mm          |  | 28   | JB-28-B                            |  | ★ 99780-1035H |  |  |
| 12mm   |  | 20mm          |  | 28   | JB-28-C                            |  | ★ 99780-1220  |  |  |
| 12mm   |  | 50mm          |  | 28   | JB-28-D                            |  | ★ 99780-1250  |  |  |
| 12mm   |  | 85mm          |  | 28   | JB-28-F                            |  | ★ 99780-1285  |  |  |
| M4.2   |  | 25mm          |  | 29   | JB-29-AA                           |  | 01466-0001U   |  |  |
| 6mm    |  | 12mm          |  | 29   | JB-29                              |  | 99786-0612    |  |  |
| 6mm    |  | 12mm          |  | 29   | JB-29-F                            |  | ★ 99720-0612  |  |  |
| 6mm    |  | 12mm          |  | 29   | JB-29-K                            |  | ★ 908450-612  |  |  |
| 6mm    |  | 12mm          |  | 29   | JB-29-M                            |  | ★ 907200-612  |  |  |
| 6mm    |  | 12mm          |  | 29   | JB-29-N                            |  | ★ 907200-612B |  |  |
| 6mm    |  | 14mm          |  | 29   | JB-29-T                            |  | 99786-0614    |  |  |
| 6mm    |  | 14mm          |  | 29   | JB-29-BA                           |  | 99786-0614    |  |  |
| 6mm    |  | 16mm          |  | 29   | JB-29-A                            |  | 99786-0616    |  |  |
| 6mm    |  | 16mm          |  | 29   | JB-29-G                            |  | ★ 99720-0616  |  |  |
| 6mm    |  | 16mm          |  | 29   | JB-29-P                            |  | 907200-616    |  |  |
| 6mm    |  | 16mm          |  | 29   | JB-29-R                            |  | ★ 907200-616B |  |  |
| 6mm    |  | 20mm          |  | 29   | JB-29-B                            |  | 99786-0620    |  |  |
| 6mm    |  | 20mm          |  | 29   | JB-29-H                            |  | ★ 99720-0620  |  |  |
| 6mm    |  | 20mm          |  | 29   | JB-29-S                            |  | 907200-620    |  |  |
| 6mm    |  | 25mm          |  | 29   | JB-29-SE                           |  | ★ 99786-0625  |  |  |
| 6mm    |  | 30mm          |  | 29   | JB-29-SK                           |  | ★ 99786-0630  |  |  |
| 6mm    |  | 35mm          |  | 29   | JB-29-J                            |  | ★ 99720-0635  |  |  |
| 6mm    |  | 50mm          |  | 29   | JB-29-C                            |  | ★ 99786-0650  |  |  |
| 8mm    |  | 16mm          |  | 29   | JB-29-D                            |  | ★ 99786-0816  |  |  |
| 8mm    |  | 20mm          |  | 29   | JB-29-E                            |  | 99786-0820    |  |  |
| 8mm    |  | 20mm          |  | 29   | JB-29-K                            |  | ★ 99720-0820  |  |  |
| 8mm    |  | 75mm          |  | 29   | JB-29-U                            |  | ★ 99780-0875  |  |  |
| 10mm   |  | 25mm          |  | 29   | JB-29-V                            |  | ★ 99780-1025H |  |  |
| 12mm   |  | 25mm          |  | 29   | JB-29-W                            |  | ★ 99780-1225  |  |  |
| 6mm    |  | 12mm          |  | 30   | JB-30                              |  | 907860-612    |  |  |
| 6mm    |  | 12mm          |  | 30   | JB-30-AA                           |  | ★ 907860-612G |  |  |
| 6mm    |  | 16mm          |  | 30   | JB-30-A                            |  | 907860-616    |  |  |
| 6mm    |  | 16mm          |  | 30   | JB-30-B                            |  | 907860-616B   |  |  |
|        |  |               |  |      | (continued)                        |  |               |  |  |

# Standard and Utility Parts Catalog

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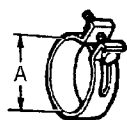
PH-770

BOLT (Cont'd)

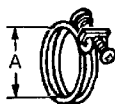
| A    | B       | TYPE | LOCATOR CODE | PART NUMBER   |
|------|---------|------|--------------|---------------|
| 8mm  | 16mm    | 30   | JB-30-F      | ★907860-816   |
| 8mm  | 20mm    | 30   | JB-30-C      | ★907860-820   |
| 8mm  | 25mm    | 30   | JB-30-D      | ★907860-825   |
| 8mm  | 209mm   | 30   | JB-30-E      | ★907860-8209  |
| 14mm | 56mm    | 30   | JB-30-H      | W706017-S309  |
| 6mm  | 12mm    | 31   | JB-31        | 99794-0612    |
| 6mm  | 12mm    | 31   | JB-31-V      | ★99794-0612B  |
| 6mm  | 16mm    | 31   | JB-31-A      | 99794-0616    |
| 6mm  | 20mm    | 31   | JB-31-B      | ★99794-0620   |
| 6mm  | 25mm    | 31   | JB-31-C      | 99794-0625    |
| 6mm  | 30mm    | 31   | JB-31-D      | ★99794-0630   |
| 6mm  | 45mm    | 31   | JB-31-E      | ★99794-0645   |
| 6mm  | 55mm    | 31   | JB-31-EA     | 99794-0655    |
| 8mm  | 12mm    | 31   | JB-31-W      | ★99794-0812   |
| 8mm  | 16mm    | 31   | JB-31-F      | 99794-0816    |
| 8mm  | 20mm    | 31   | JB-31-T      | ★99794-0820   |
| 8mm  | 25mm    | 31   | JB-31-U      | ★99794-0825   |
| 8mm  | 25mm    | 31   | JB-31-UA     | ★90105-08548  |
| 8mm  | 30mm    | 31   | JB-31-G      | 99794-0830    |
| 8mm  | 35mm    | 31   | JB-31-H      | 99794-0835    |
| 8mm  | 40mm    | 31   | JB-31-J      | ★99794-0840   |
| 8mm  | 45mm    | 31   | JB-31-K      | ★99794-0845   |
| 8mm  | 50mm    | 31   | JB-31-L      | ★99794-0850   |
| 8mm  | 60mm    | 31   | JB-31-M      | ★99794-0860   |
| 10mm | 20mm    | 31   | JB-31-N      | ★99794-1020   |
| 10mm | 25mm    | 31   | JB-31-P      | 99794-1025    |
| 10mm | 30mm    | 31   | JB-31-R      | ★99794-1030   |
| 10mm | 35mm    | 31   | JB-31-S      | ★99794-1035   |
| 6mm  | 16mm    | 32   | JB-32-D      | ★907940-616   |
| 7mm  | 19mm    | 32   | JB-31-EA     | ★W701273-S303 |
| 8mm  | 16mm    | 32   | JB-32-E      | ★907940-816   |
| 8mm  | 20mm    | 32   | JB-32-B      | ★907940-820   |
| 8mm  | 25mm    | 32   | JB-32-C      | ★907940-825   |
| 12mm | 48mm    | 32   | JB-6-E       | N811210-S301  |
| 6mm  | 20mm    | 33   | JB-33        | ★907941-620B  |
| 6mm  | 25mm    | 33   | JB-33-A      | ★907941-625   |
| 6mm  | 45mm    | 33   | JB-33-AA     | ★90794-1645   |
| 6mm  | 50mm    | 33   | JB-33-B      | ★907941-650   |
| 8mm  | 20mm    | 33   | JB-33-C      | ★907941-820   |
| 8mm  | 25mm    | 33   | JB-33-E      | ★907941-825   |
| 8mm  | 30mm    | 33   | JB-33-D      | ★907941-830   |
| 5mm  | 12mm    | 34   | JB-34        | ★99791-0512   |
| 6mm  | 12mm    | 34   | JB-34-A      | ★99791-0612   |
| 6mm  | 16mm    | 34   | JB-34-B      | ★99791-0616   |
| 6mm  | 20mm    | 34   | JB-34-C      | ★99791-0620   |
| 6mm  | 25mm    | 34   | JB-34-D      | ★99791-0625   |
| 8mm  | 16mm    | 34   | JB-34-E      | ★99791-0816   |
| 8mm  | 20mm    | 34   | JB-34-F      | ★99791-0820   |
| 8mm  | 25mm    | 34   | JB-34-G      | ★99791-0825   |
| 8mm  | 35mm    | 34   | JB-34-H      | ★99791-0835   |
| 6mm  | 129mm   | 35   | JB-35        | ★99791-06129  |
| 6mm  | 169mm   | 35   | JB-35-A      | ★99791-06169  |
| 6mm  | 209mm   | 35   | JB-35-B      | ★99791-06209  |
| 8mm  | 209mm   | 35   | JB-35-C      | ★99791-08209  |
| 10mm | 259mm   | 35   | JB-35-D      | ★99791-10259  |
| 6mm  | 12mm    | 36   | JB-36        | ★99721-0612   |
| 8mm  | 25mm    | 37   | JB-37        | ★99381-0800   |
| 6mm  | 25mm    | 38   | JB-38-A      | ★99808-0625   |
| 8mm  | 12mm    | 38   | JB-38        | ★99808-0812   |
| 6mm  | 18mm    | 39   | JB-39-E      | ★90119-06175  |
| M8   | 45mm    | 39   | JB-39-AA     | 01121-0017U   |
| M8   | 115.7mm | 39   | JB-39-A      | 01121-0015U   |
| M8   | 140mm   | 39   | JB-39-B      | 01121-0016U   |
| M10  | 50.5mm  | 39   | JB-39-E      | 01121-0014U   |
| 4mm  | 20mm    | 40   | JB-40-E      | ★90119-04168  |

PH-769

CLAMP



TYPE 1



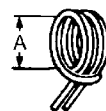
TYPE 2



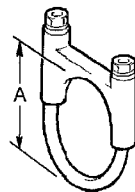
TYPE 3



TYPE 4



TYPE 5



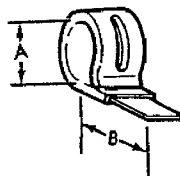
TYPE 6

PH-769  
1/14/1999

| A      | TYPE | LOCATOR CODE | PART NUMBER |
|--------|------|--------------|-------------|
| 21mm   | 2    | JE-2-E       | 01555-0001U |
| 1.79mm | 3    | JE-1-B       | 99283-1000  |
| 2.32mm | 3    | JE-1-C       | 99283-1100  |
| 2.54mm | 3    | JE-1-E       | ★99283-1400 |
| 3.48mm | 3    | JE-1-G       | ★99283-1900 |
| 118mm  | 6    | JE-3         | N807705-S2  |

PH-788

CLIP



TYPE 1



TYPE 2



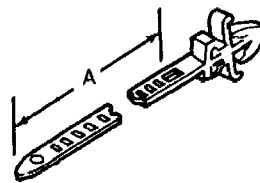
TYPE 3



TYPE 4



TYPE 5



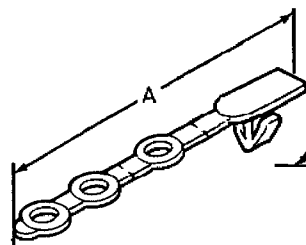
TYPE 6



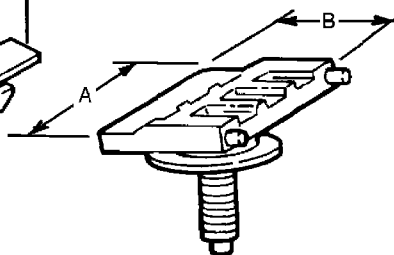
TYPE 7



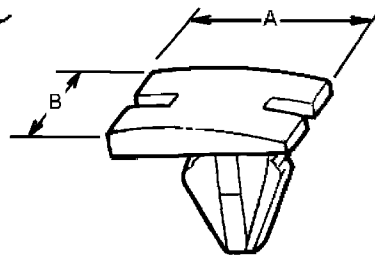
TYPE 8



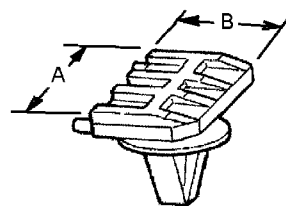
TYPE 9



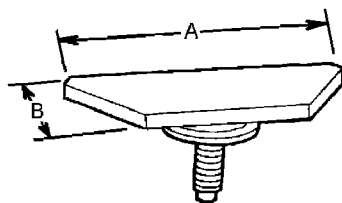
TYPE 10



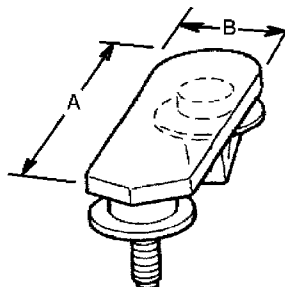
TYPE 11



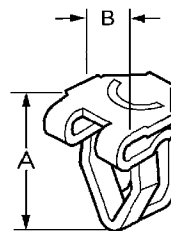
TYPE 12



TYPE 13



TYPE 14



TYPE 15

PH-788  
12/01/2003

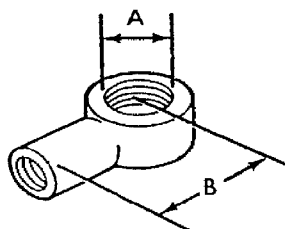
(continued)

**PH-788**
**CLIP (Cont'd)**

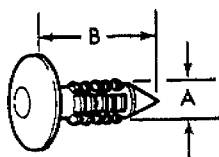
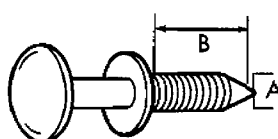
| A       | B    | TYPE | LOCATOR CODE | PART NUMBER |
|---------|------|------|--------------|-------------|
| 8mm     | 6mm  | 1    | JG-1         | ★99276-0806 |
| 10mm    | 6mm  | 1    | JG-1-A       | ★99276-1006 |
| 8mm     | 10mm | 1    | JG-1-AA      | ★99276-0810 |
| 12mm    | 8mm  | 1    | JG-1-B       | ★99276-1208 |
|         |      | 2    | JG-2         | ★99279-0401 |
|         |      | 3    | JG-3         | ★99279-0713 |
|         |      | 4    | JG-4         | ★99279-1206 |
|         |      | 5    | JG-5         | ★99279-1303 |
|         |      | 5    | JG-5-A       | ★99279-0502 |
| 75mm    |      | 6    | JG-6         | ★99289-0753 |
| 105mm   |      | 6    | JG-6-A       | ★99289-1053 |
| 135mm   |      | 6    | JG-6-B       | ★99289-1353 |
|         |      | 7    | JG-7         | ★99278-0307 |
|         |      | 8    | JG-8         | ★99278-0414 |
| 106.5mm |      | 9    | JG-9         | ★99289-1004 |

**Metric**

| DIAMETER | THREAD | A       | B       | TYPE | LOCATOR CODE | PART NUMBER  |
|----------|--------|---------|---------|------|--------------|--------------|
| M4       | 6.85   | 30.7mm  | 15.0mm  | 10   | JG-10        | N811704-S    |
| M10      | 8.60   | 20.20mm | 20.0mm  | 11   | JG-11        | ★N811706-S   |
| M11      | 8.60   | 26.5mm  | 15.0mm  | 12   | JG-12        | N811708-S    |
| 40.8mm   | 16.1   | 39.96mm | 23.9mm  | 13   | JG-13        | N811709-S    |
| M4       | 11.5   | 47.5mm  | 15mm    | 14   | JG-14        | N811720-S    |
| 2.0      | —      | 11.50mm | 12.25mm | 15   | JG-15        | W706778-S309 |

**PH-776**
**CONNECTOR**

**TYPE 1** PH-776

| A    | B    | TYPE | LOCATOR CODE | PART NUMBER |
|------|------|------|--------------|-------------|
| 8mm  | 20mm | 1    | JL-1         | ★99372-0800 |
| 10mm | 24mm | 1    | JL-1-E       | ★99372-1000 |

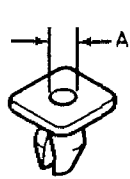
**PH-777**
**FASTENER**

**TYPE 1**

**TYPE 2** PH-777

| A      | B      | TYPE | LOCATOR CODE | PART NUMBER  |
|--------|--------|------|--------------|--------------|
| 4.2mm  | 15mm   | 1    | JG-5         | W703947-AAA  |
| 4.2mm  | 15mm   | 1    | JG-6         | W703947-AAB  |
| 4.2mm  | 15mm   | 1    | JG-7         | W703947-AAC  |
| 4.8mm  | 12mm   | 1    | JH-1         | ★99249-0512B |
| 5.8mm  | 10.6mm | 2    | JG-10        | 01553-0017U  |
| 7mm    | 22mm   | 2    | JG-9         | W701112-SSY  |
| 7.75mm | 12.5mm | 2    | JG-11        | 01553-0034U  |
| 7.9mm  | 19mm   | 2    | JG-12        | 01554-09321  |

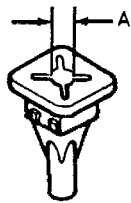


# Standard and Utility Parts Catalog

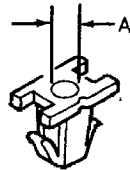
## PH-778 GROMMETS



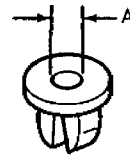
TYPE 1



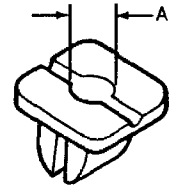
TYPE 2



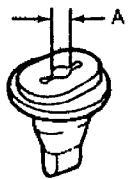
TYPE 3



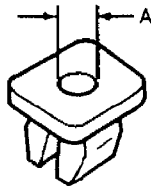
TYPE 4



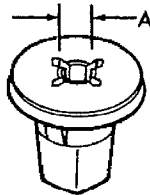
TYPE 5



TYPE 6



TYPE 7



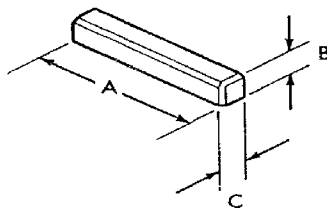
TYPE 8

PH-778

| SCREW SIZE |   | TYPE | LOCATOR CODE | PART NUMBER  |
|------------|---|------|--------------|--------------|
| 8mm        | — | 1    | JK-1         | 01281-0003U  |
| 4mm        |   | 2    | JK-2         | 99910-0407■  |
| 4mm        |   | 3    | JK-3         | ★99910-0410  |
| 5mm        |   | 4    | JK-5         | ★99910-0502  |
| 5mm        |   | 5    | JK-6         | 99910-0503   |
| 5.0mm      | — | 6    | JK-6-E       | 01553-0011U  |
| 5mm        |   | 6    | JK-7         | ★99910-0506  |
| 5mm        |   | 6    | JK-7-A       | ★99910-0506B |
| 4mm        |   | 7    | JK-1         | ★99910-0401  |
| 5mm        |   | 7    | JK-4         | 99910-0501   |
| 5mm        |   | 7    | JK-7-BA      | ★99910-0504S |
| 6mm        |   | 7    | JK-7-B       | ★99910-0601  |
| 6mm        |   | 7    | JK-8         | ★99910-0603  |
| 6mm        |   | 7    | JK-7-AA      | 99910-0604   |
| 3.4mm      | — | 8    | JK-8-A       | 01281-01081  |
| 4mm        |   | 8    | JK-8-E       | ★99910-0404S |

■ Includes sealer

## PH-791 KEY — SQUARE



TYPE 1

PH-791

| A   | B   | C     | TYPE | LOCATOR CODE | PART NUMBER |
|-----|-----|-------|------|--------------|-------------|
| M40 | 5mm | 5.2mm |      | JL-1-E       | ★99236-0540 |

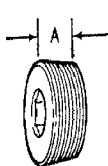
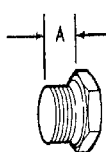
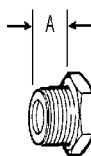
**PH-779**
**PLUG — CAP, CUP or EXPANSION**

**TYPE 1**

**TYPE 2**

PH-779

| NOMINAL SIZE | TYPE | LOCATOR CODE | PART NUMBER  |
|--------------|------|--------------|--------------|
| 20mm         | 1    | JP-1-AA      | ★ 99306-2000 |
| 25mm         | 1    | JP-1         | ★ 99306-2500 |
| 18mm         | 2    | JP-4         | 99305-1800   |

**PH-780**
**PLUG — THREADED**

**TYPE 1**

**TYPE 2**

**TYPE 3**

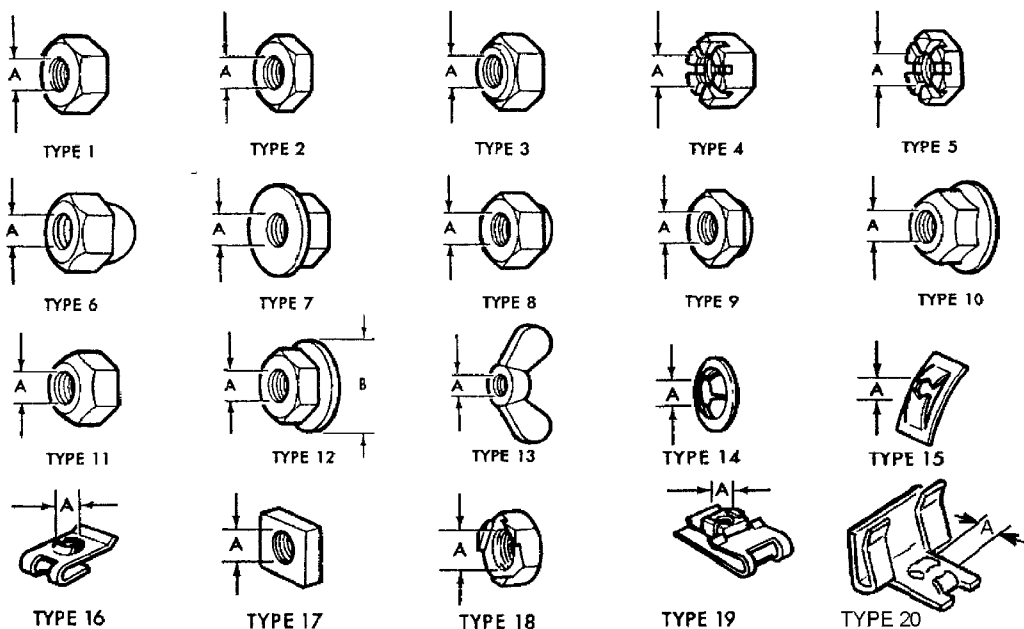
PH-780  
1/14/1989

| NOMINAL SIZE | A    | TYPE | LOCATOR CODE | PART NUMBER   |
|--------------|------|------|--------------|---------------|
| 3/8"-19      | 12mm | 1    | JP-2         | ★ 99503-3000J |
| M10 x 1.5    | 8mm  | 2    | JP-3-C       | ★ 99510-1000  |
| M14 x 2      | 10mm | 2    | JP-3         | ★ 99510-1400  |
| M14 x 1.5    | 10mm | 2    | JP-3-A       | ★ 99511-1400  |
| M16 x 1.5    | 10mm | 2    | JP-3-AA      | 99511-1600    |
| M14 x 2.5    | 12mm | 2    | JP-3-B       | 99511-1800    |
| 5/8"-18      | .44  | 3    | JP-5         | 379230-S      |

# Standard and Utility Parts Catalog

PH-767

NUT

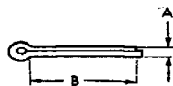
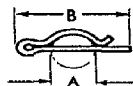
PH-767  
1/14/1999

| A   | B | TYPE | LOCATOR CODE | PART NUMBER   |
|-----|---|------|--------------|---------------|
| M4  |   | 1    | JM-1         | ★ 99906-0400  |
| M5  |   | 1    | JM-1-K       | ★ 99907-0500  |
| M5  |   | 1    | JM-1-KA      | ★ 99906-0500  |
| M6  |   | 1    | JM-1-A       | ★ 99906-0600  |
| M8  |   | 1    | JM-1-B       | ★ 99901-0800  |
| M8  |   | 1    | JM-1-C       | ★ 99906-0800  |
| M8  |   | 1    | JM-1-CA      | ★ 99921-0800A |
| M10 |   | 1    | JM-1-D       | ★ 99921-1000  |
| M10 |   | 1    | JM-1-E       | ★ 99921-1000A |
| M10 |   | 1    | JM-1-EA      | ★ 99922-1000S |
| M10 |   | 1    | JM-1-F       | ★ 99901-1000B |
| M12 |   | 1    | JM-1-G       | ★ 99921-1200  |
| M12 |   | 1    | JM-1-H       | 99921-1201    |
| M14 |   | 1    | JM-1-J       | ★ 99921-1400  |
| M20 |   | 1    | JM-1-L       | ★ 99922-2000  |
| M8  |   | 2    | JM-2-A       | ★ 99902-0800  |
| M10 |   | 2    | JM-2         | ★ 99927-1000  |
| M12 |   | 2    | JM-2-B       | ★ 99922-1201  |
| M14 |   | 2    | JM-2-C       | ★ 99922-1400  |
| M10 |   | 3    | JM-3         | ★ 99908-1000  |
| M12 |   | 5    | JM-5         | 99924-1201    |
| M5  |   | 6    | JM-6-A       | ★ 99945-0500  |
| M8  |   | 6    | JM-6         | ★ 99945-0800  |
| M5  |   | 7    | JM-7         | ★ 99940-0503  |
| M5  |   | 7    | JM-7-AA      | ★ 99940-0500  |
| M5  |   | 7    | JM-7-AA      | 99940-1401    |
| M6  |   | 7    | JM-7-A       | 99940-0600    |
| M6  |   | 7    | JM-7-B       | 99940-0601    |
| M6  |   | 7    | JM-7-C       | 99940-0602    |
| M6  |   | 7    | JM-7-T       | ★ 99940-0602B |
| M8  |   | 7    | JM-7-E       | ★ 99940-0800  |
| M8  |   | 7    | JM-7-F       | ★ 99940-0800B |
| M8  |   | 7    | JM-7-G       | 99940-0801    |
| M8  |   | 7    | JM-7-H       | ★ 99940-0801B |
| M8  |   | 7    | JM-7-J       | 99940-0802    |
| M8  |   | 7    | JM-7-K       | 99940-0803    |

(continued)

**PH-767**
**NUT (Cont'd)**

| A     | B       | TYPE | LOCATOR CODE | PART NUMBER  |
|-------|---------|------|--------------|--------------|
| M10   |         | 7    | JM-7-L       | 99940-1000   |
| M10   |         | 7    | JM-7-M       | 99940-1002   |
| M10   |         | 7    | JM-7-N       | 99940-1003   |
| M12   |         | 7    | JM-7-R       | ★99940-1200  |
| M12   |         | 7    | JM-7-S       | ★99940-1201A |
| M12   |         | 7    | JM-7-SA      | 99940-1210   |
| M12   |         | 7    | JM-7-U       | ★99940-1211  |
| M6    |         | 8    | JM-8         | ★99947-0600  |
| M8    |         | 8    | JM-8-E       | 99942-0800   |
| M12   |         | 9    | JM-9         | ★99948-1200  |
| M8    |         | 10   | JM-10        | 99946-0800   |
| M6    |         | 10   | JM-10-A      | ★99946-0600  |
| M10   |         | 10   | JM-10-E      | 99946-1000   |
| M12   |         | 10   | JM-10-G      | ★99946-1200  |
| M4    | 12mm    | 12   | JM-12-AC     | ★90906-0412  |
| M5    | 12mm    | 12   | JM-12-D      | ★90906-0501  |
| M5    | 12mm    | 12   | JM-12        | ★90906-0511  |
| M5    | 20mm    | 12   | JM-6-C       | ★W700667-S61 |
| M6    | 13.00mm | 12   | JM-12-AA     | 01221-0002U  |
| M6    | 13mm    | 12   | JM-12-AA     | ★95702-06500 |
| M6    | 13mm    | 12   | JM-12-AD     | 90906-0602   |
| M6    | 13mm    | 12   | JM-12-AB     | ★90179-06568 |
| M8    | 15mm    | 12   | JM-12-G      | ★90179-15574 |
| M8    | 17mm    | 12   | JM-12-E      | ★95702-08500 |
| M8    | 17mm    | 12   | JM-12-F      | ★90179-08572 |
| M8    | 18mm    | 12   | JM-12-A      | ★90901-0802  |
| M8    | 18mm    | 12   | JM-12-B      | ★90901-0811  |
| M10   | 19.00mm | 12   | JM-12-K      | 01225-0002U  |
| M10   | 19mm    | 12   | JM-12-K      | ★90179-10569 |
| M2.7  |         | 14   | JM-13        | 99578-3000   |
| M4.7  |         | 14   | JM-13-A      | ★99578-5000  |
| M2.7  |         | 15   | JM-14        | ★99579-3000  |
| M3.7  |         | 15   | JM-14-A      | ★99579-4000  |
| M5    |         | 16   | JM-15        | ★99896-0500  |
| M5    |         | 17   | JM-16        | ★99912-0500  |
| M10   | 17mm    | 18   | JM-17        | ★99917-1000  |
| M5.30 | —       | 19   | JM-19-E      | 01241-0003U  |
| M6    |         | 19   | JM-18        | ★99895-0600  |
| M4.2  | 3.75mm  | 20   | JM-19        | N808422-S100 |
| M4.2  | 3.75mm  | 20   | JM-19-A      | N808422-S301 |

**PH-768**
**PIN**

**TYPE 1**

**TYPE 2**

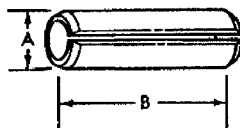
**TYPE 3**  
PH-768

| A   | B      | TYPE | LOCATOR CODE | PART NUMBER |
|-----|--------|------|--------------|-------------|
| 3mm | 20mm   | 1    | JN-1         | ★99221-3020 |
| 3mm | 27.6mm | 1    | JN-1-F       | N806631-S36 |
| 3mm | 35mm   | 1    | JN-1-A       | ★99221-3035 |
| 6mm | 21.2mm | 2    | JN-2         | ★99220-0600 |
| 8mm | 27.7mm | 2    | JN-2-C       | 99220-0800  |

# Standard and Utility Parts Catalog

PH-782

PIN — ROLL or SPRING



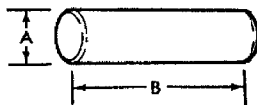
TYPE 1

PH-782

| A   | B    | TYPE | LOCATOR CODE | PART NUMBER  |
|-----|------|------|--------------|--------------|
| 2mm | 14mm | 1    | JN-4         | ★ 99222-0214 |
| 2mm | 40mm | 1    | JN-4-A       | ★ 99222-0240 |
| 3mm | 14mm | 1    | JN-4-B       | ★ 99222-0314 |
| 3mm | 28mm | 1    | JN-4-BE      | 99222-0328   |
| 3mm | 32mm | 1    | JN-4-C       | 99222-0625   |
| 4mm | 10mm | 1    | JN-4-CD      | ★ 99222-0410 |
| 4mm | 12mm | 1    | JN-4-CE      | ★ 99222-0412 |
| 4mm | 18mm | 1    | JN-4-D       | ★ 99222-0418 |
| 4mm | 20mm | 1    | JN-4-DE      | ★ 99222-0420 |
| 4mm | 32mm | 1    | JN-4-E       | ★ 99222-0432 |
| 4mm | 55mm | 1    | JN-4-F       | ★ 99222-0455 |
| 4mm | 70mm | 1    | JN-4-FE      | 99222-0470   |
| 5mm | 22mm | 1    | JN-4-G       | 99222-0522   |
| 5mm | 25mm | 1    | JN-4-H       | 99222-0525   |
| 5mm | 28mm | 1    | JN-4-HE      | 99222-0528   |
| 6mm | 25mm | 1    | JN-4-J       | 99222-0625   |
| 4mm | 16mm | 1    | JN-4-K       | 99222-0416   |

PH-783

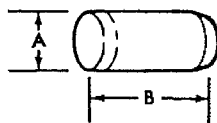
PIN — STRAIGHT



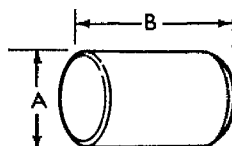
TYPE 1

PH-783

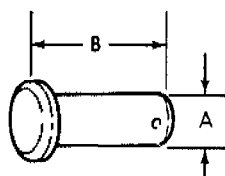
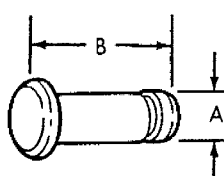
| A   | B    | TYPE | LOCATOR CODE | PART NUMBER  |
|-----|------|------|--------------|--------------|
| 3mm | 25mm | 1    | JN-5-A       | ★ 99225-0325 |
| 5mm | 10mm | 1    | JN-5         | ★ 99225-0510 |

**PH-784**
**PIN — DOWEL**

**TYPE 1**
**PH-784**

| A    | B    | TYPE | LOCATOR CODE | PART NUMBER   |
|------|------|------|--------------|---------------|
| 5mm  | 12mm | 1    | JN-6-C       | ★ 99233-0512  |
| 5mm  | 16mm | 1    | JN-6-CA      | ★ 99233-0516  |
| 5mm  | 32mm | 1    | JN-6-D       | 99233-0532    |
| 6mm  | 12mm | 1    | JN-6         | ★ 99233-0612  |
| 6mm  | 14mm | 1    | JN-6-A       | ★ 99233-0614  |
| 8mm  | 16mm | 1    | JN-6-B       | 99233-0816    |
| 11mm | 10mm | 1    | JN-6-F       | ★ 91811-10005 |

**PH-785**
**PIN — TUBULAR**

**TYPE 1**
**PH-785**

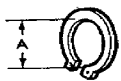
| A    | B    | TYPE | LOCATOR CODE | PART NUMBER  |
|------|------|------|--------------|--------------|
| 9mm  | 8mm  | 1    | JN-7         | ★ 99234-0908 |
| 12mm | 8mm  | 1    | JN-7-A       | ★ 99234-1208 |
| 14mm | 14mm | 1    | JN-7-B       | 99234-1414   |
| 14mm | 16mm | 1    | JN-7-C       | 99234-1416   |
| 16mm | 18mm | 1    | JN-7-D       | ★ 99234-1618 |

**PH-786**
**PIN — CLEVIS**

**TYPE 1**

**TYPE 2**
**PH-786**

| A   | B    | TYPE | LOCATOR CODE | PART NUMBER   |
|-----|------|------|--------------|---------------|
| 6mm | 16mm | 1    | JN-8         | ★ 99231-0616  |
| 8mm | 22mm | 1    | JN-8-A       | ★ 99232-08229 |
| 8mm | 18mm | 2    | JN-9         | ★ 99230-0818  |

# Standard and Utility Parts Catalog

## PH-765 RING



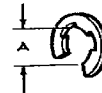
TYPE 1



TYPE 2



TYPE 3

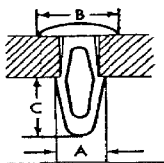


TYPE 4

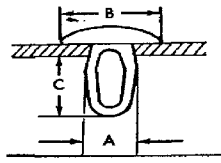
PH-765

| A      | B | TYPE | LOCATOR CODE | PART NUMBER   |
|--------|---|------|--------------|---------------|
| 14.7mm |   | 1    | JQ-1         | 99573-1600    |
| 11.4mm |   | 2    | JQ-2         | ★ 99574-1300  |
| 15.3mm |   | 2    | JQ-2-A       | 99574-1700    |
| 14.3mm |   | 2    | JQ-2-AA      | ★ 99574-1600  |
| 15.7mm |   | 2    | JQ-2-B       | 99574-1800    |
| 5mm    |   | 3    | JQ-3-A       | ★ 99575-0500  |
| 6mm    |   | 3    | JQ-3         | ★ 99575-0600  |
| 4.2mm  |   | 4    | JQ-4         | ★ 99576-0400  |
| 5.2mm  |   | 4    | JQ-4-AA      | ★ 99576-0500  |
| 6.2mm  |   | 4    | JQ-4-A       | ★ 99576-0600  |
| 7.2mm  |   | 4    | JQ-4-BA      | ★ 99576-0700  |
| 7.8mm  |   | 4    | JQ-4-BC      | ★ 93430-09048 |
| 8.2mm  |   | 4    | JQ-4-B       | ★ 99576-0800  |
| 10.2mm |   | 4    | JQ-4-C       | 99576-1000    |

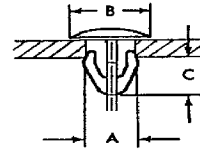
## PH-781 RIVET



TYPE 1



TYPE 2

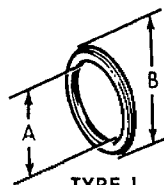


TYPE 3

PH-781

| A        | B    | C    | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|------|------|------|--------------|---------------|
| 6 x 4mm  | 14mm | 9mm  | 1    | JH-1         | ★ 99264-0526B |
| 6 x 4mm  | 14mm | 12mm | 2    | JH-2         | ★ 99264-0531B |
| 9 x 6mm  | 18mm | 10mm | 3    | JH-3         | ★ 99264-0738  |
| 10 x 6mm | 18mm | 2mm  | 3    | JH-3-A       | ★ 99264-0748  |

## PH-787 SEAL — “O” RING



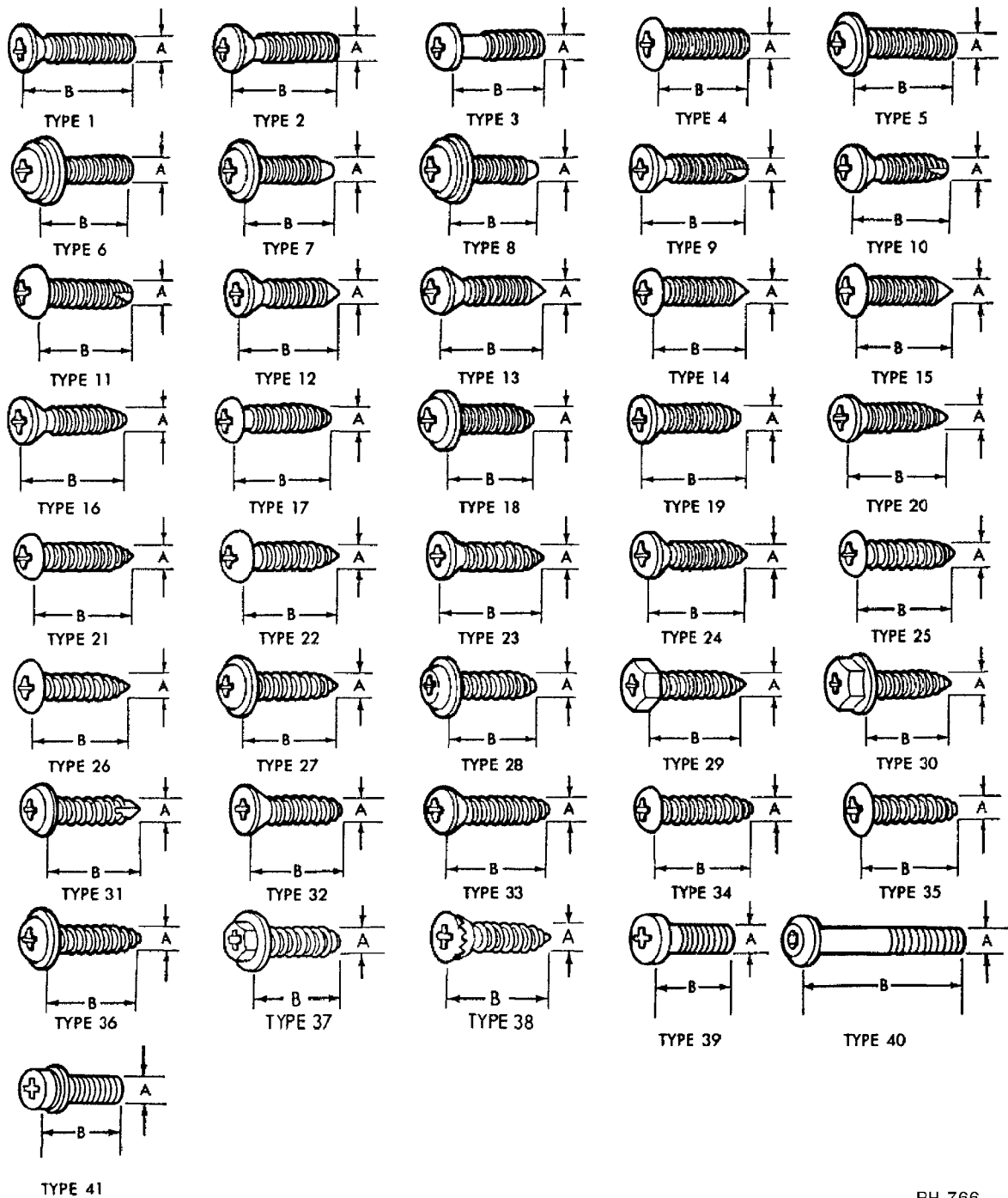
TYPE 1

PH-787

| A      | B    | TYPE | LOCATOR CODE | PART NUMBER   |
|--------|------|------|--------------|---------------|
| 3.8mm  | 4mm  | 1    | JT-1-A       | ★ 99541-00403 |
| 7.8mm  | 8mm  | 1    | JT-1-B       | 99541-00807   |
| 19.8mm | 24mm | 1    | JT-1         | 99541-02001   |

PH-766

SCREW



PH-766

(continued)



## SCREW (Cont'd)

(continued)

# Standard and Utility Parts Catalog

297

PH-766

SCREW (Cont'd)

| A   | B      | TYPE | LOCATOR CODE | PART NUMBER   |
|-----|--------|------|--------------|---------------|
| 4mm | 20mm   | 25   | JU-25-G      | ★ 997680-420  |
| 4mm | 25mm   | 25   | JU-25-P      | ★ 997680-425  |
| M4  | 18mm   | 25   | JU-25-G      | 01461-0003U   |
| 5mm | 12mm   | 25   | JU-25-H      | ★ 998630-512  |
| 5mm | 16mm   | 25   | JU-25-J      | ★ 998630-516  |
| 5mm | 16mm   | 25   | JU-25-K      | ★ 998630-516B |
| 5mm | 20mm   | 25   | JU-25-KA     | ★ 997680-520B |
| 5mm | 25mm   | 25   | JU-25-L      | ★ 998630-525B |
| 5mm | 25mm   | 25   | JU-25-R      | ★ 997680-525  |
| 5mm | 30mm   | 25   | JU-25-RA     | ★ 997680-530B |
| 5mm | 35mm   | 25   | JU-25-M      | ★ 998630-535B |
| 4mm | 8mm    | 26   | JU-26-L      | ★ 998650-408B |
| 4mm | 8mm    | 26   | JU-26-N      | ★ 998640-408  |
| 4mm | 10mm   | 26   | JU-26        | ★ 998640-410  |
| 4mm | 12mm   | 26   | JU-26-A      | 998640-412    |
| 4mm | 12mm   | 26   | JU-26-B      | ★ 997690-412B |
| 4mm | 16mm   | 26   | JU-26-C      | ★ 998640-416  |
| 4mm | 16mm   | 26   | JU-26-D      | ★ 998640-416B |
| 4mm | 20mm   | 26   | JU-26-E      | ★ 998640-420  |
| 4mm | 20mm   | 26   | JU-26-F      | ★ 997690-420B |
| 5mm | 10mm   | 26   | JU-26-M      | ★ 998650-510B |
| 5mm | 16mm   | 26   | JU-26-G      | ★ 998640-516  |
| 5mm | 16mm   | 26   | JU-26-H      | ★ 998640-516B |
| 5mm | 20mm   | 26   | JU-26-J      | ★ 997690-520  |
| 5mm | 20mm   | 26   | JU-26-K      | ★ 997690-520B |
| 4mm | 10mm   | 27   | JU-27        | ★ 998650-410B |
| 4mm | 12mm   | 27   | JU-27-A      | ★ 998650-412  |
| 4mm | 16mm   | 27   | JU-27-AA     | ★ 998650-416  |
| 4mm | 18mm   | 27   | JU-27-AC     | ★ 998650-418  |
| 4mm | 20mm   | 27   | JU-27-AE     | ★ 998650-420  |
| 4mm | 35mm   | 27   | JU-27-B      | ★ 998650-435B |
| 5mm | 10mm   | 27   | JU-27-C      | ★ 998650-510  |
| 5mm | 12mm   | 27   | JU-27-D      | 998650-512    |
| 5mm | 12mm   | 27   | JU-27-E      | ★ 998650-512B |
| 5mm | 16mm   | 27   | JU-27-F      | 998650-516    |
| 5mm | 16mm   | 27   | JU-27-G      | 998650-516B   |
| 5mm | 20mm   | 27   | JU-27-GA     | ★ 998650-520B |
| 5mm | 25mm   | 27   | JU-27-H      | ★ 998650-525B |
| 5mm | 30mm   | 27   | JU-27-J      | 998650-530B   |
| 5mm | 40mm   | 27   | JU-27-K      | ★ 998650-540  |
| 6mm | 20mm   | 27   | JU-27-L      | ★ 998650-620  |
| 4mm | 10mm   | 28   | JU-28-B      | ★ 997390-410  |
| 4mm | 16mm   | 28   | JU-28-A      | ★ 997390-416  |
| 5mm | 16mm   | 28   | JU-28-C      | ★ 997390-516B |
| 5mm | 11mm   | 28   | JU-28-D      | ★ 997390-512B |
| 5mm | 10mm   | 29   | JU-29-AA     | ★ 998600-0510 |
| 5mm | 12mm   | 29   | JU-29        | ★ 998600-512  |
| 5mm | 12mm   | 29   | JU-29-A      | ★ 998600-512B |
| 5mm | 16mm   | 29   | JU-29-B      | ★ 998600-516  |
| 5mm | 16mm   | 29   | JU-29-C      | ★ 998600-516B |
| 5mm | 10mm   | 30   | JU-30-BA     | ★ 998450-510  |
| 5mm | 16mm   | 30   | JU-30-C      | ★ 90845-0516  |
| 6mm | 10mm   | 30   | JU-30-D      | 997860-610    |
| 6mm | 12mm   | 30   | JU-30        | ★ 998450-612  |
| 6mm | 16mm   | 30   | JU-30-E      | 997860-616B   |
| 6mm | 16mm   | 30   | JU-30-EA     | ★ 99845-0616  |
| 6mm | 20mm   | 30   | JU-30-AA     | 998450-620    |
| 6mm | 25mm   | 30   | JU-30-A      | ★ 998450-625  |
| M6  | 30.0mm | 30   | JU-30-F      | 01436-01251   |
| 8mm | 30mm   | 30   | JU-30-G      | ★ 997860-830  |
| 2mm | 25mm   | 32   | 080-050      | N610130-S101  |
| 4mm | 16mm   | 33   | JU-33        | ★ 998670-416  |
| 5mm | 35mm   | 33   | JU-33-A      | ★ 998670-535B |

(continued)

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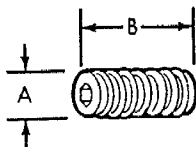
## PH-766

## SCREW (Cont'd)

| A     | B     | TYPE | LOCATOR CODE | PART NUMBER   |
|-------|-------|------|--------------|---------------|
| 6.5mm | 38mm  | 35   | JU-40-D      | W504467-S309  |
| 5mm   | 12mm  | 36   | JU-36-G      | ★ 908630-512  |
| 5mm   | 16mm  | 36   | JU-36        | ★ 997350-516  |
| 5mm   | 16mm  | 36   | JU-36-A      | ★ 997350-516B |
| 5mm   | 16mm  | 36   | JU-36-H      | ★ 99861-0516B |
| 5mm   | 20mm  | 36   | JU-36-B      | ★ 997350-520B |
| 6mm   | 16mm  | 36   | JU-36-C      | ★ 997350-616  |
| 6mm   | 25mm  | 36   | JU-36-D      | ★ 997350-625  |
| 3.5mm | 12mm  | 37   | JU-36-E      | W505812-S309  |
| 5mm   | 12mm  | 37   | JU-37        | 90734-0512B   |
| 5mm   | 14mm  | 37   | JU-37-A      | ★ 90734-0514B |
| 5mm   | 16mm  | 37   | JU-37-B      | 90734-0516    |
| 6mm   | 16mm  | 37   | JU-37-E      | ★ 90734-0616  |
| 8mm   | 20mm  | 38   | JU-38-E      | ★ 907614-820B |
| 5mm   | 10mm  | 39   | JU-39-E      | ★ 90157-05103 |
| 4mm   | 10mm  | 41   | JU-41-E      | ★ 90159-04158 |
| 5mm   | 0.8mm | 41   | JU-41-G      | ★ 90159-05169 |

## PH-900

## SCREW — SET



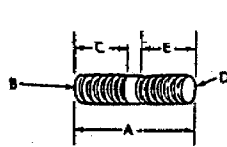
TYPE 1

PH-900

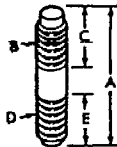
| DIAMETER | LENGTH | TYPE | LOCATOR CODE | PART NUMBER   |
|----------|--------|------|--------------|---------------|
| M5       | 5mm    | 1    | JU-100       | ★ 99885-0505J |

PH-763

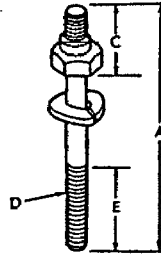
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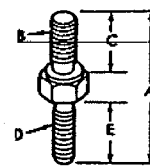
TYPE 1



TYPE 2



TYPE 3



TYPE 4

PH-763

| A       | B   | C       | D   | E      | TYPE | LOCATOR CODE | PART NUMBER    |
|---------|-----|---------|-----|--------|------|--------------|----------------|
| 12mm    | M6  | 11mm    | M6  | 12mm   | 1    | JW-4-AA      | ★ 99851-0612A  |
| 14mm    | M6  | 11mm    | M6  | 12mm   | 1    | JW-4         | ★ 99851-0614A  |
| 16mm    | M8  | 13mm    | M8  | 10mm   | 1    | JW-4-A       | ★ 99852-0816A  |
| 16mm    | M10 | 15mm    | M10 | 16mm   | 1    | JW-4-H       | ★ 99855-1016A  |
| 20mm    | M8  | 13mm    | M8  | 14mm   | 1    | JW-4-BA      | ★ 99851-0820A  |
| 22mm    | M8  | 13mm    | M8  | 14mm   | 1    | JW-4-B       | ★ 99851-0822A  |
| 25mm    | M8  | 13mm    | M8  | 14mm   | 1    | JW-4-C       | ★ 99851-0825A  |
| 32mm    | M6  | 12mm    | M6  | 12mm   | 1    | JW-4-AB      | ★ 90116-06509  |
| 35mm    | M8  | 13mm    | M8  | 14mm   | 1    | JW-4-D       | ★ 99851-0835A  |
| 35mm    | M8  | 13mm    | M8  | 10mm   | 1    | JW-4-G       | ★ 99789-0835A  |
| 37mm    | M8  | 12mm    | M8  | 18mm   | 1    | JW-4-GA      | ★ 90116-08520  |
| 41mm    | M8  | 16mm    | M8  | 16mm   | 1    | JW-4-GB      | ★ 90116-08522  |
| 48mm    | M8  | 13mm    | M8  | 14mm   | 1    | JW-4-DA      | ★ 99851-0848A  |
| 52mm    | M8  | 12mm    | M8  | 12mm   | 1    | JW-4-GF      | ★ 90116-08523  |
| 61mm    | M8  | 16mm    | M8  | 16mm   | 1    | JW-4-GK      | ★ 90116-08521  |
| 37mm    | M8  | 14.5mm  | M8  | 14.5mm | 2    | JW-5-E       | ★ 90116-08530  |
| 50mm    | M10 | 10mm    | M10 | 26mm   | 2    | JW-4-DC      | ★ W703178-S309 |
| 53.2mm  | M12 | 27mm    | M12 | 20.5mm | 2    | JW-6-G       | N808938-S431   |
| 62mm    | M12 | 40mm    | M12 | 22mm   | 2    | JW-4-GK      | W706992-S301   |
| 62mm    | M12 | 40mm    | M12 | 22mm   | 2    | JW-4-GK      | W706992-S309   |
| 64.7mm  | M8  | 36mm    | M8  | 19mm   | 2    | JW-7-H       | W701768-S431   |
| 68mm    | M12 | 16mm    | M12 | 40mm   | 2    | JW-7-G       | ★ N811161-S100 |
| 71.8mm  | M12 | 33.95mm | M12 | 17.1mm | 2    | JW-7-G       | W709749-S301   |
| 112mm   | M10 | 20.0mm  | M10 | 57.0mm | 2    | JW-6-F       | W709540-S301   |
| 83mm    | M6  | 18mm    | M8  | 30mm   | 3    | JW-6-E       | ★ 90116-08517  |
| 118.5mm | M12 | 41mm    | M10 | 77.5mm | 3    | JW-7-F       | W701844-S309   |
| 55mm    | M10 | 20mm    | M8  | 25mm   | 4    | JW-7-E       | ★ 90116-08512  |
| 65mm    | M12 | 15.5mm  | M12 | 37.5mm | 4    | JW-4-GL      | N808447-S100   |
| 92mm    | M16 | 30mm    | M16 | 61mm   | 4    | JW-7-J       | ★ W704883-S428 |

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WASHER



TYPE 2



TYPE 3



TYPE 4



TYPE 5



TYPE 6



TYPE 7



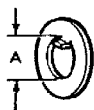
TYPE 8



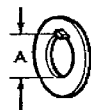
TYPE 9



TYPE 10



TYPE 11



TYPE 12

PH-764  
11/17/2004

| A      | B    | TYPE | LOCATOR CODE | PART NUMBER   |
|--------|------|------|--------------|---------------|
| 5mm    | 16mm | 2    | JX-2-AB      | ★ 99953-0516  |
| 6mm    | 12mm | 2    | JX-2-AA      | ★ 99564-0600  |
| 6mm    | 0mm  | 2    | JX-2-A       | 99952-0600    |
| 6mm    | 18mm | 2    | JX-2-B       | ★ 99952-0618  |
| 8mm    | 0mm  | 2    | JX-2-C       | ★ 99952-0800B |
| 8mm    | 13mm | 2    | JX-2-CA      | 99562-0800    |
| 8mm    | 13mm | 2    | JX-2-S       | ★ 99564-0800☆ |
| 8mm    | 15mm | 2    | JX-2-M       | 99562-1000■   |
| 8mm    | 15mm | 2    | JX-2-N       | ★ 99564-1000☆ |
| 8mm    | 16mm | 2    | JX-2-D       | ★ 99952-0816  |
| 8mm    | 18mm | 2    | JX-2-E       | 99951-0818    |
| 10mm   | 22mm | 2    | JX-2-H       | ★ 99951-1022  |
| 10mm   | 30mm | 2    | JX-2-J       | ★ 99951-1030  |
| 10mm   | 30mm | 2    | JX-2-K       | ★ 99952-1030  |
| 12mm   |      | 2    | JX-2-LE      | ★ 99952-12249 |
| 12mm   | 18mm | 2    | JX-2-TA      | 99562-1200    |
| 12mm   | 18mm | 2    | JX-2-T       | ★ 99564-1200☆ |
| 12.4mm | 36mm | 2    | JX-2-X       | W704642-S900  |
| 14mm   | 20mm | 2    | JX-2-U       | 99562-1400■   |
| 16mm   | 22mm | 2    | JX-2-UE      | 99562-1600    |
| 18mm   | 24mm | 2    | JX-2-V       | 99562-1800■   |
| 18mm   | 24mm | 2    | JX-2-R       | 99564-1800☆   |
| 12mm   | 26mm | 2    | JX-2-L       | 99951-1226    |
| 8mm    | 18mm | 3    | JX-3-A       | ★ 99958-0818  |
| 12mm   | 26mm | 3    | JX-3         | ★ 99958-1226A |
| 5mm    | 0mm  | 7    | JX-7         | ★ 99967-0500B |
| 8mm    | 0mm  | 9    | JX-9         | ★ 99972-0800  |

■ Copper Packing

☆ Aluminum Packing

# Standard and Utility Parts Catalog

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## LOCATOR CODE INDEX

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|--------------|-------------|------|--------------|--------------|------|--------------|--------------|------|--------------|--------------|------|
| B-103-G      | 58653-SA    | 1    | B-321-T      | 56577-S2     | 3    | M-138-C      | 45257-S7     | 9    | P-12         | 87650-S      | 11   |
| B-104-A      | 58654-S2    | 1    | B-322-AF     | 56192-S2     | 3    | M-138-C      | 45257-S427   | 9    | P-12-C       | 87617-S      | 11   |
| B-104-B      | 56561-S2    | 1    | B-322-E      | 56217-S2     | 3    | M-138-C      | 45257-S32    | 9    | P-12-D       | W705279-S437 | 11   |
| B-107        | 20470-S8    | 1    | B-322-H      | 56218-S2     | 3    | M-138-C      | 45257-S2     | 9    | P-12-D       | W705279-S309 | 11   |
| B-110-A      | 304815-S    | 1    | B-323        | 56740-S2     | 3    | M-138-E      | 45260-S2     | 9    | P-12-D       | W705279-S304 | 11   |
| B-110-AA     | 58656-S2    | 1    | B-326-A      | 391136-S8    | 3    | M-138-E      | 45260-S301   | 9    | P-12-D       | W705279-S900 | 11   |
| B-111-D      | 57664-S2    | 1    | B-326-DA     | 392009-S190  | 3    | M-14-B       | 386218-S     | 162  | P-14         | 87708-S      | 11   |
| B-115-F      | 58662-S2    | 1    | B-329-E      | 56538-S100   | 3    | M-141-E      | 45261-S2     | 9    | P-15         | 87837-S102   | 11   |
| B-117-XA     | 58670-S2    | 1    | B-329-F      | 56557-S2     | 3    | M-141-F      | 45267-S101   | 9    | P-15         | 87837-S105   | 11   |
| B-121-A      | 58674-S100  | 1    | B-330-B      | 57077-S2     | 13   | M-141-K      | 45265-S2     | 9    | P-15         | 87837-S106   | 11   |
| B-121-B      | 58674-S2    | 1    | B-339-V      | 57472-S40    | 13   | M-179-A      | 45288-S36    | 9    | P-15         | 87837-S100   | 11   |
| B-121-C      | 58677-S2    | 1    | B-339-W      | 57030-S2     | 13   | M-180        | 45271-S36    | 9    | P-15-F       | 87838-S2     | 11   |
| B-122-BB     | 58675-S100  | 1    | B-340        | 57032-S2     | 13   | M-182        | 33896-S8     | 10   | P-15-F       | 87838-S101   | 11   |
| B-122-BC     | 391718-S439 | 1    | B-340-AB     | 57033-S36    | 13   | M-184        | 33898-S7-8   | 10   | P-15G        | 87836-S101   | 11   |
| B-122-BC     | 391718-S426 | 1    | B-340-D      | 57041-S2     | 13   | M-192-E      | 45263-S101   | 9    | P-17         | 87675-S      | 11   |
| B-123-B      | 58676-S2    | 1    | B-340-J      | 57048-S2     | 13   | M-28-A       | 33942-S2     | 7    | P-19-A       | 87743-S101   | 11   |
| B-123-B      | 58676-S     | 1    | B-343        | 391558-S100  | 13   | M-34-A       | 86235-S36    | 7    | P-19-B       | 87747-S101   | 11   |
| B-125-A      | 58678-S2    | 1    | B-383-A      | W701798-S426 | 4    | M-4-W        | 34162-S40    | 6    | P-23         | 87744-S104   | 11   |
| B-126-B      | 58679-S2    | 1    | B-39-A       | 57002-S2     | 12   | M-49         | 33795-S7     | 7    | Q-4-A        | 97663-S      | 12   |
| B-129-C      | 58688-S2    | 1    | B-40-A       | 42910-S      | 2    | M-50         | 33797-S7     | 7    | Q-4-Y        | 97406-S      | 12   |
| B-129-EE     | 58685-S2    | 1    | B-400-G      | 57727-S2     | 2    | M-52         | 33799-S2     | 7    | Q-5-A        | 97409-S8     | 12   |
| B-129-H      | 58687-S2    | 1    | B-41-A       | 42911-S      | 2    | M-52-A       | 33799-S36    | 7    | Q-5-C        | 97411-S2     | 12   |
| B-131-A      | 58697-S2    | 1    | B-43-EB      | 304718-S2    | 1    | M-54         | 34670-S2     | 7    | Q-5-J        | 97414-S      | 12   |
| B-131-B      | 58698-S2    | 1    | B-49-A       | 56519-S2     | 1    | M-57         | 33845-S8     | 7    | Q-5-M        | 97415-S      | 12   |
| B-134-A      | 58699-S2    | 1    | B-55-D       | 56523-S2     | 1    | M-60-C       | 374504-S100  | 7    | Q-6-A        | 97627-S2     | 12   |
| B-137-D      | 58719-S2    | 2    | B-61-A       | 58620-S2     | 1    | M-69         | 33846-S8     | 7    | Q-6-C        | 97615-S      | 12   |
| B-138-BA     | 58720-S100  | 2    | B-63         | 58718-S2     | 1    | M-78-A       | 55690-S7     | 8    | Q-6-G        | 97713-S      | 12   |
| B-139-D      | 58721-S2    | 2    | B-73-B       | 300958-S     | 2    | M-78-A       | 55690-S2     | 8    | Q-7-A        | 97413-S56    | 12   |
| B-139-E      | 58722-S2    | 2    | B-77-D       | 58633-S2     | 1    | M-89-AB      | 55722-S100   | 8    | Q-7-A        | 97413-S      | 12   |
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| B-144-AA     | 58727-S2    | 2    | B-82-A       | 58635-S2     | 1    | M-89-AC      | 34975-S2     | 8    | R-5          | 74279-S      | 19   |
| B-144-AC     | 58729-S2    | 2    | B-82-AA      | 58635-1B000  | 1    | M-89-CD      | 34976-S2     | 8    | S-10         | 61489-S      | 12   |
| B-144-C      | 58731-S2    | 2    | B-82-AB      | 58635-S103   | 1    | M-89-CG      | 34977-S2     | 8    | S-10-A       | 63760-S7     | 12   |
| B-145-FF     | 58740-S100  | 2    | B-85-D       | 58636-S2     | 1    | M-89-DG      | 34987-S100   | 8    | T-1-A        | 87034-S94    | 18   |
| B-145-H      | 58742-S2    | 2    | B-86-A       | 58637-S2     | 1    | M-89-DH      | 34987-S2     | 8    | T-1-AA       | 87014-S91    | 18   |
| B-146-H      | 58743-S2    | 2    | B-89-B       | 58638-S100   | 1    | M-89-EC      | 34988-S100   | 8    | T-1-AD       | 87004-S92    | 18   |
| B-147-L      | 58748-S2    | 2    | B-90-D       | 58639-S2     | 1    | M-89-FA      | 34989-S2     | 8    | T-1-AE       | 87006-S96    | 18   |
| B-148-C      | 58747-S2    | 2    | B-94-Z       | 58642-S2     | 1    | M-89-FD      | 34989-S427   | 8    | T-1-AL       | 87006-S94    | 18   |
| B-148-GA     | 58750-S2    | 2    | B-95-A       | 58643-S2     | 1    | M-89-G       | 34990-S2     | 8    | T-1-C        | 87036-S94    | 18   |
| B-148-L      | 58754-S2    | 2    | B-96-C       | 58646-S2     | 1    | M-89-GH      | 34991-S2     | 8    | T-1-CA       | 87018-S94    | 18   |
| B-166-A      | 300891-S2   | 2    | B-97-D       | 391314-S2    | 1    | M-89-HB      | 34981-S2     | 8    | T-1-CB       | 87018-S100   | 18   |
| B-236        | 43173-S2    | 2    | C-20-A       | W705386-S309 | 3    | M-89-HF      | 34992-S2     | 8    | T-1-CC       | 87018-S95    | 18   |
| B-252-A      | 42998-S36   | 2    | C-20-B       | N807437-S426 | 3    | M-89-J       | 391970-S436  | 8    | T-1-DG       | 87010-S94    | 18   |
| B-252-B      | 42997-S2    | 2    | C-20-C       | N811878-S436 | 3    | M-89-J       | 33769-S2     | 8    | T-1-DH       | 87010-S96    | 18   |
| B-263-B      | 43039-S2    | 2    | C-20-F       | N808395-S60  | 3    | M-89-KA      | 33770-S2     | 8    | T-1-EG       | 87051-S96    | 18   |
| B-263-GA     | 43046-S2    | 2    | F-4          | 97015-S36    | 4    | M-89-LB      | 33771-S2     | 8    | T-1-F        | 87035-S92    | 18   |
| B-271-D      | 46108-S     | 2    | G-10-C       | 95854-S32    | 4    | M-89-M       | 33773-S2     | 8    | T-1-FB       | 87016-S91    | 18   |
| B-318-GD     | 56720-S2    | 3    | G-10-CC      | W704074-S307 | 4    | M-90-C       | W520203-S    | 8    | T-2-CB       | 87045-S91    | 18   |
| B-318-GM     | 56723-S2    | 3    | I-1          | 87901-S8     | 4    | M-90-D       | W520114-S301 | 8    | T-2-CC       | 87054-S94    | 18   |
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| W709877-S439  | AB-172-FD    | 32   | W710150-S436   | WA-500-K     | 32   | W710416-S440 | AW-72-E      | 264  | N806681       | AB-11-GA     | 66   |

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[illegible]



## NONSERVICED STANDARD AND UTILITY PARTS

THIS LISTING INDICATES DIMENSIONS FOR NONSERVICED STANDARD PARTS ILLUSTRATED IN THE MASTER PARTS CATALOGS.

| PART NUMBER | DESCRIPTION   | PART NUMBER | DESCRIPTION                                       |
|-------------|---|-------------|---|
| 20292-GS    | Bolt Hex - Size 12mm, Pitch 1.50, Flats 19mm, Length 30mm | 34664-S     | Nut - Washer Assy. 3/8"-24 x 25/64"               |
| 20312-S     | Bolt - Hex 3/8"-16 x 1/2"                                 | 34691-S     | Nut - Hex Jam 3/4"-10                             |
| 20325-S     | Bolt - Hex 1/4"-28 x 5/8"                                 | 34692-S     | Nut - Hex Jam 3/4"-16                             |
| 20329-S     | Bolt - Hex 3/8"-24 x 5/8"                                 | 34693-S     | Nut - Hex Jam 7/8"-9                              |
| 20330-S     | Bolt - Hex 7/16"-14 x 5/8"                                | 34695-S     | Nut - Hex Jam 1"-8                                |
| 20346-S     | Bolt - Hex 5/16"-18 x 3/4"                                | 34709-S     | Washer - Flat 1/2" Thick .11, O.D. 1.375          |
| 20349-S     | Bolt - Hex 3/8"-24 x 3/4"                                 | 34782-S     | Washer - Spring Lock 3/8" Trapezoidal             |
| 20393-S     | Bolt - Hex 1/2"-20 x 1"                                   | 34788-S     | Washer - Spring Lock 7/8" Trapezoidal             |
| 20408-S     | Bolt - Hex 3/8"-16 x 1-1/8"                               | 34790-S     | Washer - Spring Lock 1/4"                         |
| 20413-S     | Bolt - Hex 1/2"-20 x 1-1/8"                               | 34791-S     | Washer - Spring Lock 5/16", I.D. .32, O.D. .57    |
| 20450-S     | Bolt - Hex 7/16"-14 x 1-3/8"                              | 34792-S     | Washer - Spring Lock 3/8", I.D. .38, O.D. .67     |
| 20473-S     | Bolt - Hex 1/2"-20 x 1-1/2"                               | 34793-S     | Washer - Spring Lock 7/16"                        |
| 20511-S8    | Bolt - Hex 1/2"-20 x 1-3/4"                               | 34794-S     | Washer - Spring Lock 1/2", I.D. .50, O.D. .85     |
| 20559-S     | Bolt - Hex 1/2"-20 x 3-1/4"                               | 34795-S     | Washer - Spring Lock 9/16", I.D. .57, O.D. .95    |
| 20746-S     | Bolt - Hex 5/8"-11 x 1-3/4"                               | 34796-S     | Washer - Spring Lock 5/8", I.D. .64, O.D. 1.05    |
| 22204-S     | Bolt - Hex End Drill 3/8"-24 x 3/4"                       | 34800-S     | Washer - Spring Lock - #4 Medium                  |
| 23001-S     | Bolt - Sq. Hd. 5/16"-18 x 1"                              | 34803-S7    | Washer - Spring Lock No. 10 I.D. 21/64" O.D.      |
| 23352       | Bolt - Carriage 1/2"-28 x 1/4"                            | 34806-S     | Washer - Spring Lock 5/16", I.D. .32, O.D. .57    |
| 23439-S     | Bolt - Carriage 5/16"-24 x 1-1/4"                         | 34808-S     | Washer - Spring Lock 7/16" Medium                 |
| 23472-S     | Bolt - Carriage 7/16"-14 x 1-1/2"                         | 34814-S     | Washer - Spring Lock 7/8" Medium                  |
| 23820-S     | Bolt - Carriage 3/8"-16 x 8-1/2"                          | 34846-S     | Washer - Spring Lock 5/16" Heavy                  |
| 26457-S     | Screw Rd. Hd. 8-32 x 1/4"                                 | 34877-S     | Washer - Finishing - #8 Hollow Countersunk        |
| 26467-S     | Screw Rd. Hd. 8-32 x 3/8"                                 | 34882-S     | Washer - Finishing 3/8" Hollow Countersunk        |
| 26480-S     | Screw Rd. Hd. 8-32 x 1/2"                                 | 34905-S     | Washer - Tooth Lock 1/4" Regular                  |
| 26483-S     | Screw Mach. Slotted Rd. Hd. 1/4"-20 x 1/2"                | 34910-S     | Washer - Tooth Lock 9/16" Regular                 |
| 26514-S     | Screw Rd. Hd. 12-24 x 3/4"                                | 34913-S     | Washer - Tooth Lock 3/4" Regular                  |
| 27073-S     | Screw Mach. Slotted Rd. Hd. 10-32 x 7/16"                 | 34915-S     | Washer - Tooth Lock 1" Regular                    |
| 27081-S     | Screw Rd. Hd. Slotted 10-32 x 1/2"                        | 34920-S     | Washer - Tooth Lock 3/8" Heavy                    |
| 27113-S     | Screw Rd. Hd. Slotted 10-32 x 3/4"                        | 34938-S     | Washer - External Tooth Lock - #8                 |
| 27185-S     | Screw Rd. Hd. Slotted 10-32 x 1-5/8"                      | 34941-S     | Washer - External Tooth Lock 5/16"                |
| 29680-S     | Screw Mach. Slot Oval Hd. 1/4"-20 x 1-3/4"                | 34942-S     | Washer - External Tooth Lock 3/8"                 |
| 31077-S     | Screw Mach. Fill. Hd. 8-32 x 5/8"                         | 34943-S     | Washer - External Tooth Lock 7/16"                |
| 31093-S     | Screw Mach. Fill. Hd. 8-32 x 3/4"                         | 34946-S     | Washer - External Tooth Lock 5/8"                 |
| 31309-S     | Screw Mach. Fill. Hd. 5/16"-18 x 1/4"                     | 34947-S     | Washer - External Tooth Lock 3/4"                 |
| 31527-S     | Screw Tap Hex Washer Hd. 1/4"-14 x 1/2"                   | 34948-S     | Washer - External Tooth Lock 7/8"                 |
| 31612-S     | Screw Fillister Hd. Slotted 10-32 x .50                   | 34956-S     | Washer - External - Countersunk Tooth Lock 5/16"  |
| 31628-S     | Screw Fillister Hd. 10-32 x 5/8"                          | 34962-S     | Washer - Finishing #6 Flush Countersunk           |
| 32702-S     | Screw Oval Hd. 10-13 x 1-3/4"                             | 34972-S     | Washer - Finishing 1/4" Hollow Countersunk        |
| 32948-S     | Screw Pan Hd. Tap. 8-15 x 1"                              | 34975-S     | Nut - 1/4"-20 Hex Lock P/T                        |
| 32960-S     | Screw Pan Hd. Self Tap. 14-10 x 1-1/2"                    | 34978-S     | Nut - Hex 7/16"-14 (Gr. 5)                        |
| 33759-S     | Bolt Lag 1/2"-6 x 13-1/2"                                 | 34979-S     | Nut - Hex 1/2"-13, Across Flats .75 (Gr. 5)       |
| 33769-S     | Nut - Hex 1/4"-20 (Gr. 5)                                 | 34987-S     | Nut - Hex 3/8"-16 (Gr. 8)                         |
| 33777-S     | Nut - Hex Washer Hd. 1/4"-20 Lock                         | 34989-S     | Nut - Hex 1/2"-13 (Gr. 8)                         |
| 33795-S     | Nut - Hex 1/4"-20   | 35385-S     | Bolt - Thin Rd. Hd. 1/2"-20 x 5-1/4"              |
| 33882-S8    | Nut 1/2"-20   | 35655-S     | Bolt - Thin Rd. Hd. 1/2"-20 x 1-3/4"              |
| 33892-S     | Nut Wing 10-24  | 35787-S     | Bolt - Thin Rd. Hd. 7/16-14 x 4"                  |
| 33942-S     | Nut Jam Hex 1/2"-13, Across Flats .75                     | 35914-S     | Bolt - Thin Rd. Hd. 5/8"-18 x 6"                  |
| 33944-S     | Nut Jam Hex 9/16"-12                                      | 36741-S     | Screw - Machine - Flat Hd. 3/8"-16 x 4-3/4"       |
| 33945-S     | Nut Jam Hex 9/16"-12, Across Flats .87                    | 37039-S     | Screw - Machine - Rd. Hd. 4-40 x 2-1/2"           |
| 34034-S     | Nut Hex Castle & Slotted 5/8"-18, Across Flat .93         | 37044-S     | Screw - Machine - Rd. Hd. 1/4"-20 x 2-1/2"        |
| 34081-S     | Nut Hex 1/4"-20 x 7/16"                                   | 37439-S     | Screw - Machine - Rd. Hd. 1/4"-28 x 2-3/8"        |
| 34129-S     | Nut Sq. Mach. Screw 1/4"-20, Across Flats .43             | 37760-S     | Screw - Machine - Fillister Hd. 5/16"-24 x 1-1/8" |
| 34145-S     | Nut Sq. Mach. Screw 3/8"-24, Across Flats .62             | 37781-S     | Screw - Machine - Fillister Hd. 5/16"-18 x 1-3/8" |
| 34164-S     | Nut - Crown 3/8"-16 x 5/8"                                | 37837-S     | Screw - Machine - Fillister Hd. 5/16"-24 x 2"     |
| 34176-S     | Nut - Crown 10-32 x 13/32"                                | 38207-S     | Screw - Machine - Pan Hd. 1/4"-28 x 1/2"          |
| 34178-S     | Nut - Crown 1/4"-28 x 15/32"                              | 38209-S     | Screw - Machine - Pan Hd. 5/16"-24 x 1/2"         |
| 34180-S     | Nut - Crown 3/8"-24 x 5/8"                                | 38226-S     | Screw - Machine - Pan Hd. 10-32 x 5/8"            |
| 34274-S     | Nut - Clinch 5/16"-18 x 1/2"                              | 38310-S     | Screw - Machine - Pan Hd. 3/8"-24 x 1-1/8"        |
| 34360-S     | Nut - Pierce 3/8"-16 x 9/32"                              | 38319-S     | Screw - Machine - Pan Hd. 5/16"-24 x 1-1/4"       |
| 34390-S     | Nut - Hex 1/4"-20 x 9/32" Lock                            | 38324-S     | Screw - Machine - Pan Hd. 8-32 x 1-3/8"           |
| 34399-S8    | Nut - Lock 1/2"-20 x 3/4"                                 | 38400-S     | Screw - Machine - Pan Hd. 6-32 x 2-1/4"           |
| 34441-S     | Nut - Hex 1/4"-28 Lock                                    | 38413-S     | Screw - Machine - Pan Hd. 10-32 x 2-3/8"          |
| 34444-S     | Nut - Hex 3/8"-16 x 13/32"                                | 38597-S     | Screw - Machine - Pan Hd. 4-40 x 3/8"             |
| 34656-S     | Nut - Washer Assy. 10-32 x 5/32"                          | 38780-S     | Screw - Machine - Pan Hd. 5/16"-18 x 1-5/8"       |
| 34663-S     | Nut - Washer Assy. 3/8"-16 x 25/64"                       | 38802-S     | Screw - Machine - Pan Hd. 5/16"-18 x 1-7/8"       |



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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION  |
|-------------|--|-------------|--|
| 39010-S     | Screw - Machine - Pan Hd. 6-32 x 1/4"                  | 45159-S     | Nut - Spring 6-32 x 5/16"                                  |
| 40190-S     | Screw - Tapping - Hex Hd. 10-24 x 1"                   | 45164-S     | Nut - Spring 6-18 x 5/16"                                  |
| 40903-S     | Screw - Tapping - Hex Washer Hd. 6-32 x 3/8"           | 45177-S32   | Nut - Spring "U" 8-15 x 13/32" x 45/64"                    |
| 40905-S     | Screw - Tapping - Hex Washer Hd. 10-24 x 3/8"          | 45203-S     | Nut - Stamped - 1-Notch - 5-Slits 16-24                    |
| 40914-S     | Screw - Tapping - Hex Washer Hd. 1/4"-20 x 3/8"        | 45222-S     | Nut - Stamped - 9-Notches 5/8"-18                          |
| 40919-S     | Screw - Tapping - Hex Washer Hd. 10-32 x 1/2"          | 45236-S     | Nut - Stamped 6-32   |
| 40927-S     | Screw - Tapping - Hex Washer Hd. 1/4"-20 x 1/2"        | 45257-S     | Nut - Spring 8-18  |
| 40931-S     | Screw - Tapping - Hex Washer Hd. 10-24 x 5/8"          | 45258-S     | Nut - Spring 1/4"-14                                       |
| 40949-S     | Screw - Tapping - Hex Washer Hd. 5/16"-18 x 3/4"       | 45262-S     | Nut "U" 8-32   |
| 40966-S     | Screw - Tapping - Hex Washer 1/4"-20 x 7/8"            | 45263-S     | Nut "U" 1/4"-20 (Gr. 5)                                    |
| 40973-S     | Screw - Tapping - Hex Washer 5/16"-18 x 3/4"           | 45266-S     | Nut "U" 8-32   |
| 40975-S     | Screw - Tapping - Hex Washer 5/16"-18 x 1"             | 45267-S     | Nut "U" 5/16"-18   |
| 40983-S     | Screw - Tapping - Hex Washer 10-24 x 1-1/4"            | 45268-S     | Nut "U" 5/16"-18   |
| 40992-S     | Screw - Tapping - Hex Washer 1/4"-20 x 1-1/4"          | 45270-S     | Nut - Hex Flange Hd. 8-32                                  |
| 42120-S     | Screw - Tapping - Hex Washer 10-16 x 3/8"              | 45273-S     | Nut - Stamped Hex Flange 8-32                              |
| 42147-S     | Screw - Tapping - Hex Washer 10-12 x 7/8"              | 45275-S     | Nut - Stamped Hex Flange 1/4"-20                           |
| 42152-S     | Screw - Tapping - Hex Washer 10-12 x 1"                | 45283-S     | Nut - Stamped Self Thread Flange 1/8"                      |
| 42360-S     | Screw - Tapping - Hex Washer 10-16 x 3/8"              | 45286-S     | Nut - Stamped Self Thread Flange 3/16"                     |
| 42366-S     | Screw - Hex Washer Hd. Tapping 8-18 x 1/2"             | 45322-S     | Nut & Washer - Hex 8-32 (Gr. 5)                            |
| 42380-S     | Screw - Hex Washer Hd. Tapping 8-18 x 3/4"             | 45324-S     | Nut & Conical Washer 8-32, Across Flat .34                 |
| 42381-S     | Screw - Hex Washer Hd. Tapping 10-16 x 3/4"            | 45329-S     | Nut & Conical Washer 10-24, Across Flat .37                |
| 42383-S     | Screw - Hex Washer Hd. Tapping 1/4"-14 x .75           | 45330-S     | Nut & Conical Washer 10-24, Across Flat .37                |
| 42547-S     | Screw - Hex Hd. Tapping 10-16 x 1/2"                   | 45332-S     | Nut & Conical Washer 1/4"-20, Across Flat .43              |
| 42723-S     | Screw & External Tooth Washer - Hex Hd. 8-32 x 5/8"    | 45334-S     | Nut & Conical Washer 1/4"-20, Across Flat .43              |
| 42728-S     | Screw & External Tooth Washer - Hex Hd. 10-32 x 1/2"   | 45336-S     | Nut & Conical Washer 1/4"-20, Across Flat .43              |
| 42772-S     | Screw & External Tooth Washer - Hex Hd. 3/8"-16 x 5/8" | 45340-S     | Nut & Conical Washer 5/16"-18, Across Flat .50             |
| 42802-S     | Screw & External Tooth Washer - Pan Hd. 10-32 x 1/2"   | 45344-S     | Nut & Conical Washer 3/8"-16, Across Flat .56              |
| 42817-S     | Screw & External Tooth Washer - Pan Hd. 1/4"-20 x 1/2" | 45350-S     | Nut & Conical Washer 7/16"-14, Across Flat .68             |
| 42847-S     | Screw & Spring Lock Washer - Hex Hd. 5/16"-18 x 1"     | 45358-S     | Nut - Hex Flange 3/8"-16                                   |
| 42906-S     | Screw & Spring Lock Washer - Hex Hd. 1/4"-20 x 3/4"    | 45535-S     | Bolt - Hex 3/8"-24 x 3"                                    |
| 42924-S     | Bolt - Hex 1/4"-20 x 2-1/4"                            | 45599-S     | Bolt - Hex 1/2"-20 x 4-3/4"                                |
| 42955-S     | Bolt - Hex 5/16"-18 x 7/8"                             | 45629-S     | Bolt - Hex 1/2"-20 x 5-1/2"                                |
| 42957-S     | Bolt - Hex 5/16"-18 x 1-1/8"                           | 45647-S     | Bolt - Hex 7/16"-20 x 6"                                   |
| 42996-S     | Bolt - Hex 3/8"-16 x 3/4"                              | 45702-S     | Bolt - Hex 5/8"-11 x 3/4"                                  |
| 42997-S     | Bolt - Hex 3/8"-16 x 7/8"                              | 45796-S     | Bolt - Hex 5/8"-11 x 2-1/2"                                |
| 43001-S     | Bolt - Hex 3/8"-16 x 1-3/8"                            | 45811-S     | Bolt - Hex 5/8"-18 x 3"                                    |
| 43016-S     | Bolt - Hex 3/8"-24 x 5/8"                              | 45834-S     | Bolt - Hex 3/4"-16 x 3-3/4"                                |
| 43040-S     | Bolt - Hex 7/16"-14 x 1"                               | 45970-S     | Bolt - Hex Self Lock Slot Hd. 5/16" x 18 x 1-1/2"          |
| 43065-S     | Bolt - Hex 7/16"-20 x 1"                               | 46108-S     | Bolt - Hex Self Locking 1/2"-13 x 2-1/8"                   |
| 43092-S     | Bolt - Hex 1/2"-13 x 1-3/8"                            | 50208-S     | Screw - Machine - Fillister Hd. 5/16"-18 x 1-1/2"          |
| 43127-S     | Bolt - Hex 1/2"-20 x 2-3/4"                            | 50267-S     | Screw - Machine - Rd. Hd. 10-32 x 1/2"                     |
| 43159-S     | Bolt - Hex 9/16"-18 x 1"                               | 50411-S     | Screw - Machine - Oval Hd. 1/4"-20 x 5/8"                  |
| 43184-S     | Bolt - Hex 5/8"-11 x 1-1/4"                            | 50419-S     | Screw - Machine - Oval Hd. 10-32 x 3/4"                    |
| 43248-S     | Screw & Spring Lock Washer - Fillister Hd. 8-32 x 3/8" | 50420-S     | Screw - Machine - Oval Hd. 12-24 x 3/4"                    |
| 43250-S     | Screw & Spring Lock Washer - Fillister Hd. 6-32 x 1/2" | 50631-S     | Screw & External Tooth Washer - Rd. Hd. 12-24 x 3/8"       |
| 43251-S     | Screw & Spring Lock Washer - Fillister Hd. 8-32 x 1/2" | 50723-S     | Screw & External Tooth Washer - Oval Hd. 10-32 x 1"        |
| 43260-S     | Screw & Spring Lock Washer - Hex Hd. 1/4"-20 x 1/2"    | 50804-S     | Screw & External Tooth Washer - Pan Hd. 10-32 x 3/8"       |
| 43395-S     | Screw & Spring Lock Washer - Fillister Hd. 8-32 x 3/4" | 50810-S     | Screw & External Tooth Washer - Pan Hd. 10-32 x 1/2"       |
| 43407-S     | Screw & Spring Lock Washer - Fillister Hd. 8-32 x 1"   | 50844-S     | Screw & External Tooth Washer - Pan Hd. 5/16"-18 x 1"      |
| 43495-S     | Screw & Spring Lock Washer - Hex Hd. 12-24 x 5/8"      | 50922-S     | Screw & Spring Lock Washer - Fillister Hd. 6-32 x 3/8"     |
| 43526-S     | Screw & Spring Washer - Hex Hd. 3/8"-16 x 1-1/4"       | 50950-S     | Screw & Spring Lock Washer - Fillister Hd. 5/16"-18 x 3/4" |
| 44705-S     | Washer - Flat #4 (.312 O.D.)                           | 51006-S     | Screw & Washer 10-32 x 3/4"                                |
| 44722-S     | Washer - Flat 5/16" (11/16" O.D.)                      | 51411-S     | Screw - Oval Hd. Tapping 8-32 x 1-1/4"                     |
| 44724-S     | Washer - Flat 5/16" (7/8" O.D.)                        | 51439-S     | Screw - Rd. Hd. Tapping 3/8"-24 x 1-3/4"                   |
| 44792-S     | Washer - Spring Lock - 5/8"                            | 51732-S     | Screw - Fillister Hd. Tapping 10-32 x 1-1/2"               |
| 44820-S     | Washer - Flat 1/4" (3/4" O.D.)                         | 51751-S     | Screw - Pan Hd. Tapping 8-32 x 1/4"                        |
| 44841-S     | Washer - Flat 9/16" (2-1/8" O.D.)                      | 51755-S     | Screw - Pan Hd. Tapping 8-32 x 3/8"                        |
| 44854-S     | Washer - Flat I.D. 1" x 2" O.D.                        | 51765-S     | Screw - Pan Hd. Tapping 10-24 x 1/2"                       |
| 44873-S     | Washer - Flat 2" (4-1/2" O.D.)                         | 51766-S     | Screw - Pan Hd. Tapping 10-32 x 1/2"                       |
| 44877-S     | Washer - Flat 3/8" (Hardened)                          | 51786-S     | Screw - Pan Hd. Tapping 8-32 x 3/4"                        |
| 44878-S     | Washer - Flat 7/16" (Hardened)                         | 51790-S     | Screw - Pan Hd. Tapping 1/4"-20 x 3/4"                     |
| 44879-S     | Washer - Flat 1/2" (Hardened)                          | 52055-S     | Screw - Flat Hd. Tapping 6-20 x 3/8"                       |
| 44880-S     | Washer - Flat 9/16" (Hardened)                         | 52392-S13   | Screw - Oval Hd. Tapping 8-15 x 1-3/4"                     |
| 44881-S     | Washer - Flat 5/8" (Hardened)                          | 52422-S8    | Screw - Oval Hd. Tapping 10-16 x 5/8"                      |
| 44883-S     | Washer - Flat 7/8" 1.62 O.D. (Hardened)                | 52445-S     | Screw - Oval Hd. 8-18 x 1"                                 |
| 45006-S     | Nut - Spring 8-32 x 5/16"                              | 52521-S     | Screw - Oval Hd. Tapping 1/4"-14 x 1-1/2"                  |
| 45031-S     | Nut - Spring 3-32 x 15/64" Medium                      | 52533-S     | Screw - Oval Hd. Tapping 5/16"-24 x 1-1/2"                 |
| 45054-S     | Nut - Spring 1/4"                                      | 52721-S     | Screw - Pan Hd. Tapping 10-16 x 3/8"                       |
| 45132-S     | Nut - Spring 8-15 x 13/32"                             | 52784-S     | Screw - Pan Hd. Tapping 6-20 x 1/2"                        |

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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION  |
|-------------|--|-------------|--|
| 52786-S     | Screw - Pan Hd. Tapping 8-18 x 1/2"                  | 55938-S     | Screw Tap Oval Trim Hd. Cross Recess 8-18 x 1.75     |
| 52795-S     | Screw - Pan Hd. Tapping 10-16 x 5/8"                 | 55939-S     | Screw Tap Oval Trim Hd. Cross Recess 8-18 x 2.00     |
| 52803-S     | Screw - Pan Hd. Tapping 10-16 x 3/4"                 | 55946-S     | Screw Tap Oval Trim Hd. Cross Recess 8-18 x .75      |
| 52814-S     | Screw - Pan Hd. Tapping 8-18 x 1"                    | 55953-S     | Screw Tap Oval Trim Hd. Cross Recess 6-20 x .50      |
| 52829-S     | Screw - Pan Hd. Tapping 8-18 x 1-1/2"                | 55957-S     | Screw Tap Oval Trim Hd. Cross Recess 6-20 x .50      |
| 52890-S     | Screw - Pan Hd. Tapping 1/4"-14 x 1/2"               | 55961-S     | Screw Tap Oval Trim Hd. Cross Recess 8-18 x .50      |
| 52906-S     | Screw - Oval Hd. Tapping 8-32 x 3/8"                 | 55964-S     | Screw Tap Oval Trim Hd. Cross Recess 8-18 x 1.25     |
| 52930-S     | Screw - Oval Hd. Tapping 1/4"-20 x 1/2"              | 55975-S     | Screw Tap Oval Trim Hd. Cross Recess 8-18 x 1.00     |
| 52938-S     | Screw - Oval Hd. Tapping 10-24 x 3/4"                | 55980-S     | Screw Tap Hex Washer Hd. 1/4"-14 x .38               |
| 52948-S     | Screw - Oval Hd. Tapping 8-32 x 7/8"                 | 55981-S     | Screw Tap Hex Washer Hd. 1/4"-14 x .50               |
| 53228-S     | Screw - Oval Trim Hd. Tapping 12-20 x 1-1/2"         | 55984-S     | Screw Tap Oval Hd. Cross Recess 8-18 x .62           |
| 53253-S     | Screw - Oval Trim Hd. Tapping 6-32 x 3/8"            | 55998-S     | Screw Tap Pan Hd. 8-18 x .75                         |
| 53288-S     | Screw - Oval Trim Hd. Tapping 8-32 x 7/8"            | 55999-S     | Screw Tap Pan Hd. Cross Recess 8-18 x 1.00           |
| 53770-S     | Screw - Flat Trim Hd. 12-20 x 7/8"                   |             | Stainless Steel                                      |
| 53866-S     | Screw - Rd. Hd. 10-24 x 1"                           | 56001-S     | Screw Tap Pan Hd. Cross Recess 8-18 x 1.50           |
| 54507-S     | Screw - Pan Hd. 8-32 x .38                           |             | Stainless Steel                                      |
| 54632-S     | Screw - Machine - Hex 10-24 x 3/8"                   | 56002-S     | Screw Tap Pan Hd. Cross Recess 8-18 x 1.75           |
| 54724-S     | Screw - Machine - Hex 10-24 x 1"                     |             | Stainless Steel                                      |
| 54737-S     | Screw - Machine - Hex 10-32 x 1-1/8"                 | 56006-S     | Screw Tap Pan Hd. Cross Recess 8-18 x .25 Carb Steel |
| 54760-S     | Screw - Machine - Hex 10-24 x 1-3/8"                 | 56102-S     | Bolt - Hex UBS 1/4"-20 x .62                         |
| 55194-S     | Screw - Machine - Hex Washer Hd. 6-32 x 7/8"         | 56103-S     | Bolt - Hex UBS 1/4"-20 x .75                         |
| 55232-S     | Screw - Machine - Hex Washer Hd. 10-24 x 1-1/4"      | 56107-S     | Bolt - Hex UBS 1/4"-20 x 1.50                        |
| 55268-S     | Screw - Machine - Hex Washer Hd. 10-24 x 1-5/8"      | 56112-S     | Bolt - Hex UBS 1/4"-20 x 2.75                        |
| 55378-S     | Screw - Machine - Hex Washer Hd. 10-24 x 1/2"        | 56118-S     | Bolt - Hex UBS 5/16"-18 x .50                        |
| 55468-S     | Screw - Machine - Hex Washer Hd. 5/16"-24 x 1-1/8"   | 56119-S     | Bolt - Hex UBS 5/16"-18 x .62                        |
| 55561-S     | Screw - Machine - Hex Washer Hd. 1/4"-20 x 2-1/4"    | 56120-S     | Bolt - Hex UBS 5/16"-18 x .75                        |
| 55581-S     | Screw & Washer Hd. 10-32 x 1/4"                      | 56121-S     | Bolt - Hex UBS 5/16"-18 x .88                        |
| 55587-S     | Screw & Ext. Tooth Washer - Hex Hd. 1/4"-20 x 3/8"   | 56122-S     | Bolt - Hex UBS 5/16"-18 x 1.00                       |
| 55589-S     | Screw & Ext. Tooth Washer - Hex Hd. 8-32 x 1/2"      | 56124-S     | Bolt - Hex UBS 5/16"-18 x 1.50                       |
| 55593-S     | Screw & Ext. Tooth Washer - Hex Hd. 1/4"-20 x 1/2"   | 56125-S     | Bolt - Hex UBS 5/16"-18 x 1.75                       |
| 55598-S     | Screw & Ext. Tooth Washer - Hex Hd. 3/8"-24 x 1/2"   | 56131-S     | Bolt - Hex UBS 5/16"-18 x 3.25                       |
| 55603-S     | Screw & Ext. Tooth Washer - Hex Hd. 1/4"-20 x 5/8"   | 56132-S     | Bolt - Hex UBS 5/16"-18 x 3.50                       |
| 55615-S     | Screw & Ext. Tooth Washer - Hex Hd. 5/16"-18 x 3/4"  | 56160-S     | Bolt - Hex UBS 7/16"-14 x 1.00                       |
| 55651-S     | Screw & Ext. Tooth Washer - Hex Hd. 1/4"-20 x 1-1/4" | 56181-S     | Bolt - Hex UBS 1/2"-13 x 1.00                        |
| 55692-S     | Locknut - Hex 5/16"-24 - Grade B                     | 56303-S     | Bolt - Hex UBS Piloted 1/4"-20 x .75                 |
| 55696-S     | Locknut - Hex 7/16"-20 - Grade B                     | 56304-S     | Bolt - Hex UBS Piloted 1/4"-20 x .88                 |
| 55719-S     | Locknut - Hex 9/16"-12 - Grade C                     | 56305-S     | Bolt - Hex UBS Piloted 1/4"-20 x 1.00                |
| 55732-S     | Locknut - Hex 10-32                                  | 56307-S     | Bolt - Hex UBS Piloted 1/4"-20 x 1.50                |
| 55736-S     | Locknut - Hex 5/16"-18                               | 56319-S     | Bolt - Hex UBS Piloted 5/16"-18 x .62                |
| 55738-S     | Locknut - Hex 3/8"-16                                | 56321-S     | Bolt - Hex UBS Piloted 5/16"-18 x .88                |
| 55751-S     | Locknut - Hex 7/16"-20 - Grade C                     | 56322-S     | Bolt - Hex UBS Piloted 5/16"-18 x 1.00               |
| 55768-S     | Locknut - Hex Thick 3/8"-16                          | 56323-S     | Bolt - Hex UBS Piloted 5/16"-18 x 1.25               |
| 55772-S     | Locknut - Hex 1/2"-13                                | 56325-S     | Bolt - Hex UBS Piloted 5/16"-18 x 1.75               |
| 55776-S     | Locknut - Thick 5/8"-11 - Grade C                    | 56328-S     | Bolt - Hex UBS Piloted 5/16"-18 x 2.50               |
| 55800-S8    | Lock Nut - 1/4"-20 x 7/16"                           | 56329-S     | Bolt - Hex UBS Piloted 5/16"-18 x 2.75               |
| 55862-S     | Screw Tap Oval Trim Hd. 8-18 x .62                   | 56330-S     | Bolt - Hex UBS Piloted 5/16"-18 x 3.00               |
| 55875-S     | Screw Tap Hex Washer Hd. 8-18 x .62                  | 56342-S     | Bolt - Hex UBS Piloted 3/8"-16 x 1.50                |
| 55881-S     | Screw Tap Pan Hd. 1/4"-14 x .50                      | 56348-S     | Bolt - Hex UBS Piloted 3/8"-16 x 3.00                |
| 55883-S     | Screw Tap Pan Hd. 1/4"-14 x .75                      | 56358-S     | Bolt - Hex UBS Piloted 7/16"-14 x .75                |
| 55885-S     | Screw Tap Pan Hd. 1/4"-14 x 1.00                     | 56361-S     | Bolt - Hex UBS Piloted 7/16"-14 x 1.25               |
| 55901-S     | Screw Tap Hex Washer Hd. 4-24 x .50                  | 56370-S     | Bolt - Hex UBS Piloted 7/16"-14 x 3.50               |
| 55902-S     | Screw Tap Hex Washer Hd. 6-20 x .38                  | 56502-S     | Bolt - Hex Flange Hd. 1/4"-20 x 5/8" (Gr. 5) UBS     |
| 55904-S     | Screw Tap Hex Washer Hd. 6-20 x .75                  | 56507-S     | Bolt - Hex Washer Hd. 1/4"-20 x 1-1/2" (Gr. 5) UBS   |
| 55906-S     | Screw Tap Hex Washer Hd. 8-18 x .38                  | 56509-S     | Bolt - Hex Washer Hd. 1/4"-20 x 2" (Gr. 5) UBS       |
| 55909-S     | Screw Tap Hex Washer Hd. 8-18 x 1.00                 | 56510-S     | Bolt - Reduced Hex Hd. UBS 1/4"-20 x 2.25            |
| 55910-S     | Screw Tap Hex Washer Hd. 8-18 x 1.25                 | 56518-S     | Bolt - Reduced Hex Hd. UBS 5/16"-18 x .50            |
| 55913-S     | Screw Tap Hex Washer Hd. 8-18 x 2.00                 | 56521-S     | Bolt - Hex Washer Hd. 5/16"-18 x 7/8" (Gr. 5) UBS    |
| 55914-S     | Screw Tap Hex Washer Hd. 1/4"-14 x 3/4"              | 56522-S     | Bolt - Hex Washer Hd. 5/16"-18 x 1" (Gr. 5) UBS      |
| 55917-S     | Screw Tap Hex Washer Hd. 1/4"-14 x 1.50              | 56523-S     | Bolt - Hex Flange Hd. 5/16"-18 x 1-1/4" (Gr. 5)      |
| 55922-S     | Screw Tap Pan Hd. 6-20 x .38                         | 56524-S     | Bolt - Hex Washer Hd. 5/16"-18 x 1-1/2" (Gr. 5) UBS  |
| 55923-S     | Screw Tap Pan Hd. 6-20 x .50                         | 56525-S     | Bolt - Hex Washer Hd. 5/16"-18 x 1.75 (Gr. 5) UBS    |
| 55925-S     | Screw Tap Pan Hd. 6-20 x 1.00                        | 56529-S     | Bolt - Hex Washer Hd. 5/16"-18 x 2.75 (Gr. 5) UBS    |
| 55927-S     | Screw Tap Pan Hd. 8-18 x .50                         | 56538-S     | Bolt - Hex Washer Hd. 3/8"-16 x .75 (Gr. 5) UBS      |
| 55928-S     | Screw Tap Pan Hd. 8-18 x .75                         | 56540-S     | Bolt - Hex Washer Hd. 3/8"-18 x 1" (Gr. 5) UBS       |
| 55929-S     | Screw Tap Pan Hd. 8-18 x 1.00                        | 56542-S     | Bolt - Hex Washer Hd. 3/8"-16 x 1.50 (Gr. 5) UBS     |
| 55930-S     | Screw Tap Pan Hd. 8-18 x 1.25                        | 56543-S     | Bolt - Hex Washer Hd. 3/8"-16 x 1.75 (Gr. 5) UBS     |
| 55931-S     | Screw Tap Pan Hd. 8-18 x 1.50                        | 56546-S     | Bolt - Hex Washer Hd. 3/8"-16 x 2.50 (Gr. 5) UBS     |
| 55933-S     | Screw Tap Oval Trim Hd. Cross Recess 8-18 x .50      | 56552-S     | Bolt - Hex Washer Hd. 3/8"-16 x 4.00 (Gr. 5) UBS     |
| 55934-S     | Screw Tap Oval Trim Hd. Cross Recess 8-18 x .75      | 56558-S     | Bolt - Hex Washer Hd. 7/16"-14 x .75 (Gr. 5) UBS     |

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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION   |
|-------------|--|-------------|---|
| 56561-S     | Bolt - Hex Washer Hd. 7/16"-14 x 1.25 (Gr. 5) UBS    | 57257-S     | Screw - Pan Hd. Washer 8-32 x .50 (Gr. 5.2)                 |
| 56563-S     | Bolt - Hex Washer Hd. 7/16"-14 x 1.75 (Gr. 5) UBS    | 57258-S     | Screw - Pan Hd. Washer 8-32 x .62 (Gr. 5.2)                 |
| 56700-S     | Bolt - Hex Washer Hd. 1/4"-20 x .38 (Gr. 5) UBS      | 57306-S     | Screw - Pan Hd. Washer 1/4"-20 x .62 (Gr. 5.2)              |
| 56701-S     | Bolt - Hex Washer Hd. 1/4"-20 x .50 (Gr. 5) UBS      | 57307-S     | Screw - Pan Hd. Washer 1/4"-20 x .75 (Gr. 5.2)              |
| 56702-S     | Bolt - Hex Washer Hd. 1/4"-20 x .62 (Gr. 5) UBS      | 57315-S     | Screw - Pan Hd. Washer 5/16"-18 x .75 (Gr. 5.2)             |
| 56704-S     | Bolt - Hex Washer Hd. 1/4"-20 x .88 (Gr. 5) UBS      | 57317-S     | Screw - Pan Hd. Washer 5/16"-18 x 1" (Gr. 5.1)              |
| 56707-S     | Bolt - Hex Washer Hd. 1/4"-20 x 1.50 (Gr. 5) UBS     | 57326-S     | Screw - Pan Hd. Washer 1/4"-20 x 1.25 (Gr. 5.1)             |
| 56709-S     | Bolt - Hex Washer Hd. 1/4"-20 x 2.00 (Gr. 5) UBS     | 57335-S     | Screw - Pan Hd. Washer 5/16"-18 x 1.50 (Gr. 5.1)            |
| 56710-S     | Bolt - Hex Washer Hd. 1/4"-20 x 2.25 (Gr. 5) UBS     | 57347-S     | Screw - Oval Hd. Cross Recess 6-32 x .50 (Gr. 5.1)          |
| 56711-S     | Bolt - Hex Washer Hd. 1/4"-20 x 2.50 (Gr. 5) UBS     | 57351-S     | Screw - Mach. Oval Hd. Cross Recess 6-32 x 1.00 (Gr. 5)     |
| 56714-S     | Bolt - Hex Washer Hd. 1/4"-20 x 3.25 (Gr. 5) UBS     | 57355-S     | Screw - Mach. Oval Hd. Cross Recess 8-32 x .38 (Gr. 5)      |
| 56721-S     | Bolt - Hex Flange Hd. 5/16"-18 x 1" (Gr. 5) UBS      | 57360-S     | Screw - Oval Hd. 8-32 x 1" (Gr. 5)                          |
| 56722-S     | Bolt - Hex Washer Hd. 5/16"-18 x 1-1/8" (Gr. 5) UBS  | 57361-S     | Screw - Oval Hd. 8-32 x 1-1/4" (Gr. 5.1)                    |
| 56723-S     | Bolt - Hex Flange Hd. 5/16"-18 x 1-3/8" (Gr. 5) UBS  | 57366-S     | Screw - Oval Hd. 1/4"-20 x .62 (Gr. 5.1)                    |
| 56724-S     | Bolt - Hex Flange Hd. 5/16"-18 x 1.50 (Gr. 5) UBS    | 57367-S     | Screw - Oval Hd. 1/4"-20 x .75                              |
| 56726-S     | Bolt - Hex Flange Hd. 5/16"-18 x 2.00 (Gr. 5) UBS    | 57369-S     | Screw - Oval Hd. 1/4"-20 x 1" (Gr. 5.1)                     |
| 56727-S     | Bolt - Hex Flange Hd. 5/16"-18 x 2-3/8" (Gr. 5) UBS  | 57370-S     | Screw - Oval Hd. 1/4"-20 x 1.25 (Gr. 5.1)                   |
| 56728-S     | Bolt - Hex Flange Hd. 5/16"-18 x 2.50 (Gr. 5) UBS    | 57373-S     | Screw - Oval Hd. 1/4"-20 x 2.00 (Gr. 5.1)                   |
| 56732-S     | Bolt - Hex Flange Hd. 5/16"-18 x 3.50 (Gr. 5) UBS    | 57379-S     | Screw - Oval Hd. 5/16"-18 x 1-1/4" (Gr. 5.1)                |
| 56738-S     | Bolt - Hex Flange Hd. 3/8"-16 x .75 (Gr. 5) UBS      | 57399-S     | Screw - Oval Hd. Ext. Tooth Washer 8-32 x .75 (Gr. 5.1)     |
| 56739-S     | Bolt - Hex Flange Hd. 3/8"-16 x .88 (Gr. 5) UBS      | 57407-S     | Screw - Oval Hd. Ext. Tooth Washer 1/4"-20 x .75 (Gr. 5.1)  |
| 56741-S     | Bolt - Hex Flange Hd. 3/8"-16 x 1-3/8" (Gr. 5) UBS   | 57415-S     | Screw - Oval Hd. Ext. Tooth Washer 5/16"-18 x .75 (Gr. 5.1) |
| 56748-S     | Bolt - Hex Flange Hd. 3/8"-16 x 3.00 (Gr. 5) UBS     | 57439-S     | Screw - Pan Hd. 8-32 x 1/2" (Gr. 5.1)                       |
| 56750-S     | Bolt - Hex Flange Hd. 3/8"-16 x 3-5/8" (Gr. 5) UBS   | 57441-S     | Screw - Mach. Pan Hd. Cross Recess 8-32 x .75 (Gr. 5)       |
| 56776-S     | Bolt - Hex Flange Hd. 7/16"-14 x 5.50 (Gr. 5) UBS    | 57443-S     | Screw - Pan Hd. 8-32 x 1" (Gr. 5.1)                         |
| 56792-S     | Bolt - Hex Flange Hd. 1/2"-13 x 3.75 (Gr. 5) UBS     | 57444-S     | Screw - Pan Hd. 8-32 x 1-1/4" (Gr. 5.1)                     |
| 56796-S     | Bolt - Hex Flange Hd. 1/2"-13 x 5.00 (Gr. 5) UBS     | 57448-S     | Screw - Pan Hd. 1/4"-20 x .50 (Gr. 5.1)                     |
| 56804-S     | Bolt - Hex Flange Hd. 9/16"-12 x 1.25 (Gr. 5) UBS    | 57450-S     | Screw - Pan Hd. 1/4"-20 x .75 (Gr. 5.1)                     |
| 56902-S     | Screw - Tap Rd. Washer Hd. 8-18 x .50                | 57453-S     | Screw - Pan Hd. 1/4"-20 x 1-1/4" (Gr. 5.1)                  |
| 56903-S     | Screw - Tap Rd. Washer Hd. 8-18 x .62                | 57461-S     | Screw - Pan Hd. 5/16"-18 x 1.00 (Gr. 5.1)                   |
| 56904-S     | Screw - Tap Rd. Washer Hd. 8-18 x .75                | 57471-S     | Screw - Hex Hd. Washer 1/4"-20 x .50 (Gr. 5)                |
| 56905-S     | Screw - Rd. Washer Hd. 8-18 x 7/8"                   | 57477-S     | Screw - Hex Hd. Washer 3/8"-16 x .75 (Gr. 5)                |
| 56906-S     | Screw - Rd. Washer Hd. 8-18 x 1.00                   | 57485-S     | Screw - Hex Hd. Washer 8-32 x .50 (Gr. 5)                   |
| 56907-S     | Screw - Tap Rd. Washer Hd. 8-18 x 1.25               | 57487-S     | Screw - Hex Hd. Washer 1/4"-20 x .50 (Gr. 5)                |
| 56911-S     | Screw - Tap Rd. Washer Hd. 8-18 x .62                | 57489-S     | Screw - Hex Hd. Washer 5/16"-18 x .50 (Gr. 5)               |
| 56918-S     | Screw - Tap Rd. Washer Hd. 8-18 x .25                | 57490-S     | Screw - Hex Hd. Washer 5/16"-18 x .62 (Gr. 5)               |
| 56920-S     | Screw - Tap Rd. Washer Hd. 8-18 x .50                | 57493-S     | Screw - Hex Hd. Washer 3/8"-16 x .75 (Gr. 5)                |
| 56921-S     | Screw - Tap Rd. Washer Hd. 8-18 x .62                | 57494-S     | Screw - Hex Hd. Washer 3/8"-16 x .88 (Gr. 5)                |
| 56928-S     | Screw - Tap Rd. Washer Hd. 8-18 x .50                | 57496-S     | Screw - Hex Hd. Washer 7/16"-14 x .88 (Gr. 5)               |
| 56930-S     | Screw - Tap Rd. Washer Hd. 8-18 x .75                | 57502-S     | Screw - Hex Hd. Washer 1/4"-20 x .62 (Gr. 5)                |
| 56949-S     | Screw - Tap Hex Hd. Con. Washer 1/4"-14 x .62        | 57546-S     | Screw - Pan Hd. Washer Cross Recess 1/4"-20 x .50 (Gr. 5)   |
| 56950-S     | Screw - Tap Hex Hd. Con. Washer 1/4"-14 x .75        | 57550-S     | Screw - Pan Hd. Washer Cross Recess 1/4"-20 x .50 (Gr. 5)   |
| 57013-S     | Screw - Hex Washer Hd. 8-32 x 3/8" (Gr. 5.1)         | 57560-S     | Screw - Pan Hd. Cross Recess 6-32 x .25 (Gr. 5)             |
| 57014-S     | Screw - Hex Washer Hd. 8-32 x 1/2" (Gr. 5.1)         | 57561-S     | Screw - Pan Hd. Cross Recess 8-32 x .25 (Gr. 5)             |
| 57015-S     | Screw - Hex Washer Hd. 8-32 x 5/8"                   | 57609-S     | Screw - Hex Hd. Spring Lock Washer 8-32 x .38 (Gr. 5)       |
| 57018-S     | Screw - Hex Washer Hd. 8-32 x 1"                     | 57620-S     | Screw - Hex Hd. Spring Lock Washer 1/4"-20 x .50 (Gr. 5)    |
| 57030-S     | Screw and Washer - Hex Hd. 1/4"-20 x 29/32" (Gr. 5)  | 57621-S     | Screw - Hex Hd. Spring Lock Washer 1/4"-20 x .62 (Gr. 5)    |
| 57033-S     | Screw and Washer - Hex Hd. 1/4"-20 x 1.43            | 57622-S     | Screw - Hex Hd. Spring Lock Washer 1/4"-20 x .75 (Gr. 5)    |
| 57034-S     | Screw - Hex Washer Hd. 1/4"-20 x 1-5/8" (Gr. 5.2)    | 57634-S     | Screw - Hex Hd. Spring Lock Washer 5/16"-18 x .88 (Gr. 5)   |
| 57035-S     | Screw - Hex Washer Hd. 1/4"-20 x 1.75 (Gr. 5.2)      | 57635-S     | Screw - Hex Hd. Washer 5/16"-18 x 1"                        |
| 57036-S     | Screw - Hex Washer Hd. 1/4"-20 x 2.00 (Gr. 5.2)      | 57642-S     | Screw - Hex Hd. Washer 3/8"-16 x .50 (Gr. 5)                |
| 57039-S     | Screw - Hex Washer Hd. 5/16"-18 x .75 (Gr. 5.2)      | 57658-S     | Screw - Hex Hd. Washer 7/16"-14 x .88 (Gr. 5)               |
| 57040-S     | Screw - Hex Washer Hd. 5/16"-18 x .88 (Gr. 5.2)      | 57659-S     | Screw - Hex Hd. Washer 7/16"-14 x 1.00 (Gr. 5)              |
| 57041-S     | Screw - Hex Washer Hd. 5/16"-18 x 1-3/16" (Gr. 5.2)  | 57661-S     | Screw - Hex Hd. Washer 7/16"-14 x 1.50 (Gr. 5)              |
| 57043-S     | Screw - Hex Washer Hd. 5/16"-18 x 1.50 (Gr. 5.2)     | 57663-S     | Screw - Hex Hd. Washer 7/16"-14 x 2.00 (Gr. 5)              |
| 57048-S     | Screw - Hex Washer Hd. 3/8"-16 x 1-1/8" (Gr. 5)      | 57664-S     |   |
| 57076-S     | Screw and Washer - Hex Hd. 8-32 x .62 (Gr. 5)        | 57684-S     | Screw - Pan Hd. Spring Lock Washer 8-32 x .38 (Gr. 5)       |
| 57084-S     | Screw and Washer - Hex Hd. 1/4"-20 x .75 (Gr. 5)     | 57719-S     | Screw - Hex Hd. Flg. Serr. 1/4"-20 x .62                    |
| 57098-S     | Screw and Washer - Hex Hd. 5/16"-18 x 1.75 (Gr. 5)   | 57723-S     | Screw - Hex Hd. Flange 3/8"-16 x .75                        |
| 57099-S     | Screw - Hex Washer Hd. 5/16"-18 x 2.00 (Gr. 5)       | 57725-S     | Screw - Hex Hd. Flange 3/8"-16 x 1.00                       |
| 57102-S     | Screw - 3/8"-16 x 1.0"                               | 58617-S     | Bolt - Hex Hd. 5/16"-18 x .75 (Gr. 8)                       |
| 57103-S     | Screw - Hex Washer Hd. 3/8"-16 x 1.25 (Gr. 5)        | 58634-S     | Bolt - Hex Hd. 3/8"-16 x 1" (Gr. 8)                         |
| 57130-S     | Screw - Hex Washer Hd. 1/4"-20 x .75 (Gr. 5)         | 58635-S     | Bolt - Hex Hd. 3/8"-16 x 1-1/4" (Gr. 8)                     |
| 57132-S     | Screw - Hex Washer Hd. 1/4"-20 x 1.00 (Gr. 5)        | 58636-S     | Bolt - Hex Hd. 3/8"-16 x 1-1/2" (Gr. 8)                     |
| 57142-S     | Screw - Hex Washer Hd. 5/16"-18 x 1-15/32" (Gr. 5.2) | 58637-S     | Bolt - Hex Hd. 3/8"-16 x 1-3/4" (Gr. 8)                     |
| 57175-S     | Screw - Hex Washer Hd. 8-32 x .50 (Gr. 5.2)          | 58643-S     | Bolt - Hex Hd. 3/8"-16 x 3-1/4" (Gr. 8)                     |
| 57177-S     | Screw - Hex Washer Hd. 8-32 x .75 (Gr. 5.2)          | 58647-S     | Bolt - Hex Hd. 3/8"-16 x 4.25 (Gr. 8)                       |
| 57211-S     | Screw - Hex Washer Hd. 3/8"-16 x 3.25 (Gr. 5.2)      | 58651-S     | Bolt - Hex Hd. 3/8"-16 x 6" (Gr. 8)                         |
| 57239-S     | Screw - Pan Hd. Washer 8-32 x .50 (Gr. 5.2)          | 58653-S     | Bolt - Hex Hd. 7/16"-14 x 1                                 |

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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION  |
|-------------|--|-------------|--|
| 58655-S     | Bolt - Hex Hd. 7/16"-14 x 1.50                         | 72125-S     | Pin - Cotter 1/8" x 2-1/4"                                 |
| 58658-S     | Bolt - Hex Hd. 7/16"-14 x 2.25 (Gr. 8)                 | 72144-S     | Pin - Cotter 5/32" x 2-1/2"                                |
| 58660-S     | Bolt - Hex Hd. 7/16"-14 x 2.75 (Gr. 8)                 | 72145-S     | Pin - Cotter 3/16" x 2-1/2"                                |
| 58661-S     | Bolt - Hex Hd. 7/16"-14 x 3.00 (Gr. 8)                 | 72169-S     | Pin - Cotter 3/16" x 3"                                    |
| 58664-S     | Bolt - Hex Hd. 7/16"-14 x 3.75 (Gr. 8)                 | 72171-S     | Pin - Cotter 1/4" x 3"                                     |
| 58668-S     | Bolt - Hex Hd. 7/16"-14 x 5.00 (Gr. 8)                 | 72854-S     | Pin - Straight Chamfered End 3/8" x 3/4"                   |
| 58669-S     | Bolt - Hex Hd. 7/16"-14 x 5.50 (Gr. 8)                 | 73858-S     | Pin - Clevis 3/16" x 37/64"                                |
| 58672-S     | Bolt - Hex Hd. 1/2"-13 x .75 (Gr. 8)                   | 73878-S     | Pin - Clevis 3/16" x 13/16"                                |
| 58673-S     | Bolt - Hex Hd. 1/2"-13 x 1" (Gr. 8)                    | 73895-S     | Pin - Clevis 1/4" x 15/16"                                 |
| 58675-S     | Bolt - Hex Hd. 1/2"-13 x 1.50                          | 73905-S     | Pin - Clevis 3/8" x 31/32"                                 |
| 58676-S     | Bolt - Hex Hd. 1/2"-13 x 1-3/4" (Gr. 8)                | 73928-S     | Pin - Clevis 1/2" x 1-3/16"                                |
| 58677-S     | Bolt - Hex Hd. 1/2"-13 x 2" (Gr. 8)                    | 73936-S     | Pin - Clevis 1/2" x 1-1/4"                                 |
| 58679-S     | Bolt - Hex Hd. 1/2"-13 x 2-1/4" (Gr. 8)                | 73937-S     | Pin - Clevis 9/16" x 1-1/4"                                |
| 58680-S     | Bolt - Hex Hd. 1/2"-13 x 2.75 (Gr. 8)                  | 73969-S     | Pin - Clevis 1/4" x 1-31/64"                               |
| 58683-S     | Bolt - Hex Hd. 1/2"-13 x 3.50 (Gr. 8)                  | 73980-S     | Pin - Clevis 1/2" x 1-5/8"                                 |
| 58685-S     | Bolt - Hex Hd. 1/2"-13 x 4.00 (Gr. 8)                  | 74037-S     | Pin - Clevis 1/2" x 2-1/8"                                 |
| 58688-S2    | Bolt - Hex Hd. 1/2"-13 x 5                             | 74039-S     | Pin - Clevis 5/8" x 2-3/32"                                |
| 58695-S     | Bolt - Hex Hd. 9/16"-12 x 1.00 (Gr. 8)                 | 74092-S     | Pin - Clevis 1/2" x 2-7/8"                                 |
| 58700-S     | Bolt - Hex Hd. 9/16"-12 x 2.25 (Gr. 8)                 | 74116-S     | Plug - Expansion 5/16"                                     |
| 58701-S     | Bolt - Hex Hd. 9/16"-12 x 2-1/2" (Gr. 8)               | 74119-S     | Plug - Expansion 1-1/8"                                    |
| 58703-S     | Bolt - Hex Hd. 9/16"-12 x 3.00 (Gr. 8)                 | 74148-S     | Key - Woodruff - #9 Soft Rockwell C-10 Min.                |
| 58722-S     | Bolt - Hex Hd. 5/8"-11 x 2-1/4" (Gr. 8)                | 74180-S     | Key - Woodruff - #11 Hardened Rockwell C-40 to C-50        |
| 58724-S     | Bolt - Hex Hd. 5/8"-11 x 2-3/4" (Gr. 8)                | 74218-S     | Plug - Button 51/64" x 9/32"                               |
| 58729-S     | Bolt - Hex Hd. 5/8"-11 x 4" (Gr. 8)                    | 74245-S     | Plug - Button 1" x 11/32"                                  |
| 58740-S     | Bolt - Hex Hd. 3/4"-10 x 1.75 (Gr. 8)                  | 75632-S     | Pin - Clevis 5/16"-1"                                      |
| 58741-S     | Bolt - Hex Hd. 3/4"-10 x 2.00 (Gr. 8)                  | 75871-S     | Pin - Clevis 5/16"-1"                                      |
| 58742-S     | Bolt - Hex Hd. 3/4"-10 x 2.25 (Gr. 8)                  | 76009-S     | Pin - Clevis 5/16" x 1"                                    |
| 58762-S     | Bolt - Hex Hd. 7/8"-9 x 2.50 (Gr. 8)                   | 76025-S     | Pin - Clevis 3/8" x 15/16"                                 |
| 58765-S     | Bolt - Hex Hd. 7/8"-9 x 3.25 (Gr. 8)                   | 76164-S     | Pin - Clevis 3/16" x 27/32"                                |
| 58772-S     | Bolt - Hex Hd. 7/8"-9 x 5.50 (Gr. 8)                   | 76208-S     | Pin - Clevis 3/8" x 1-3/32"                                |
| 58801-S     | Bolt - Carriage 1/4"-20 x .75 (Gr. 5)                  | 76221-S     | Pin - Clevis 3/8" x 1-5/32"                                |
| 58802-S     | Bolt - Carriage 1/4"-20 x 1" (Gr. 5.2)                 | 86061-S     | Elbow - 5/8"-37 Flx. 1/2" Ex. Pipe 90°                     |
| 58820-S     | Bolt - Carriage 1/4"-20 x 1.25 (Gr. 5.2)               | 86090-S     | Elbow - Fitting Tube 90° 3/4"                              |
| 58823-S     | Bolt - Rd. Hd. Sq. Neck 3/8"-16 x 2.0                  | 86211-S     | Elbow - Fitting Tube 90° 5/8"                              |
| 60048-S     | Rivet - Flat Hd. Solid 3/16" x 1/2"                    | 86237-S     | Fitting Tube Union & Nut 5/8"                              |
| 60931-S     | Rivet - Oval Hd. Solid 1/4" x 1/2"                     | 87033-S     | Seal 1/2" x .10 "O" Ring                                   |
| 63312-S     | Rivet - Oval Hd. Semi-Tubular 11/64" x 5/16"           | 87035-S     | "O" Ring 5/8"  |
| 63319-S     | Rivet - Oval Hd. Semi-Tubular 5/32" x 11/32"           | 87042-S     | "O" Ring 1-1/16"   |
| 63751-S     | Rivet - Oval Hd. Semi-Tubular 1/8" x 3/16"             | 87065-S     | "O" Ring 1-3/4"  |
| 63756-S     | Rivet - Oval Hd. Semi-Tubular 9/64" x 7/32"            | 87086-S     | "O" Ring 4-1/8"  |
| 64696-S     | Rivet - Flat Countersunk Hd. Semi-Tubular 3/16" x 1/2" | 87221-S     | Connector - Internal Pipe Thread 5/16"-20 x 1-11/32" Steel |
| 65068-S     | Rivet - Button Hd. 3/8" x 1"                           | 87225-S     | Connector - Internal Pipe Thread 5/8"-14 x 2" Steel        |
| 65069-S     | Rivet - Button Hd. 3/8" x 1-1/16"                      | 87233-S     | Connector - Internal Pipe Thread 5/16"-20 x 1-11/32" Brass |
| 65076-S     | Rivet - Button Hd. 3/8" x 1-1/2"                       | 87234-S     | Connector - 3/8" 45 Fl. x 1/4" Ex. Pipe                    |
| 65090-S     | Rivet - Button Hd. 7/16" x 1"                          | 87237-S     | Connector - Internal Pipe Thread 5/8"-14 x 2" Brass        |
| 65092-S     | Rivet - Button Hd. 7/16" x 1-1/8"                      | 87254-S     | Fitting - 1/4" Tube Brass                                  |
| 65095-S     | Rivet - Button Hd. 7/16" x 1-5/16"                     | 87256-S     | Connector - Internal Pipe Thread 3/8"-18 x 1-5/16" Brass   |
| 65096-S     | Rivet - Button Hd. 7/16" x 1-3/8"                      | 87258-S     | Connector - Internal Pipe Thread 1/2"-16 x 1-9/10" Brass   |
| 65115-S     | Rivet - Button Hd. 1/2" x 1-1/4"                       | 87266-S     | Union - Flared Tube 5/16"-20 x 1-11/32" Steel              |
| 65117-S     | Rivet - Button Hd. 1/2" x 1-3/8"                       | 87278-S     | Union - 3/8"-18 x 1-1/2" Brass                             |
| 65121-S     | Rivet - Button Hd. 1/2" x 1-3/4"                       | 87280-S     | Union - 1/2"-16 x 1-13/16" Brass                           |
| 65123-S     | Rivet - Button Hd. 1/2" x 2"                           | 87299-S     | Elbow - 90° 1/4" Tube Brass                                |
| 65129-S     | Rivet - Button Hd. 1/8" x 3/8"                         | 87302-S     | Elbow - 90° 3/8" Tube Brass                                |
| 67628-S     | Pin - Spring - Coiled Med. Duty 3/16" x 1-3/8"         | 87304-S     | Elbow - 90° 1/2" Tube Brass                                |
| 67737-S     | Pin - Spring - Coiled Hvy. Duty 3/32" x 9/16"          | 87306-S     | Elbow - 90° 3/4" Tube Brass                                |
| 67815-S     | Pin - Spring - Coiled Hvy. Duty 1/8" x 1-1/8"          | 87378-S     | Elbow - 90° 1/2" Tube Steel                                |
| 72003-S     | Pin - Cotter 1/16" x 1/2"                              | 87473-S     | Tee - Three Way - 1/2"-18 x 1-1/8" Steel                   |
| 72016-S     | Pin - Cotter 3/32" x 3/4"                              | 87478-S     | Tee - Three Way - 1/4"-24 x 11/16" Brass                   |
| 72023-S     | Pin - Cotter 3/8" x 3/4"                               | 87510-S     | Elbow - 90° 5/8" Tube Steel                                |
| 72025-S     | Pin - Cotter 3/32" x 7/8"                              | 87516-S     | Elbow - 90° 3/8" Tube Brass                                |
| 72026-S     | Pin - Cotter 1/8" x                                    | 87518-S     | Elbow - 90° 1/2" Tube Brass                                |
| 72036-S     | Pin - Cotter 5/32" x 1"                                | 87519-S     | Elbow - 90° 5/8" Tube Brass                                |
| 72043-S     | Pin - Cotter 3/32" x 1-1/8"                            | 87552-S     | Connector - Internal Pipe Thread 3/8"-18 x 1-1/32" Brass   |
| 72063-S     | Pin - Cotter 3/16" x 1-5/8"                            | 87583-S     | Union - 3/16"-24 x 5/8" Steel                              |
| 72082-S     | Pin - Cotter 3/16" x 1-5/8"                            | 87593-S     | Union - 1/4"-24 x 5/8" Steel                               |
| 72088-S     | Pin - Cotter 3/32" x 1-3/4"                            | 87612-S     | Plug - Square 3/4" Pipe Malleable Iron                     |
| 72090-S     | Pin - Cotter 5/32" x 1-3/4"                            | 87658-S     | Plug - Hexagon 1/4" Pipe Brass                             |
| 72093-S     | Pin - Cotter 1/4" x 1-3/4"                             | 87659-S     | Plug - Hexagon 3/8" Pipe Brass                             |
| 72109-S     | Pin - Cotter 3/16" x 2"                                | 87710-S     | Plug - Hexagon 3/8" Pipe Steel                             |

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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION                                  |
|-------------|--|-------------|--|
| 87711-S     | Plug - Hexagon 1/2" Pipe Steel                               | 302359-S    | Bolt - Rd. Hd. Square Neck 5/16"-18 x 1-1/2" |
| 87733-S     | Plug - Square 3/4" Pipe Cast Iron                            | 302388-S    | Bolt - Rd. Hd. Square Neck 5/16"-18 x 2"     |
| 87743-S     | Plug - Square Hd. 1/8" Pipe Steel                            | 302555-S    | Bolt - Hex Hd. 7/16"-14 x 3-1/4"             |
| 87745-S     | Plug - Square Hd. 3/8" Pipe Steel                            | 302561-S    | Bolt - Hex Hd. 7/16"-14 x 4-1/2"             |
| 87746-S     | Plug - Square 1/2" Tube Steel                                | 302602-S    | Bolt - Hex Hd. 5/8"-18 x 6"                  |
| 87831-S     | Plug - Hexagon 3/8" Tube Malleable Iron                      | 304633-S    | Bolt - Hex Hd. 1/4"-28 x 5/8"                |
| 87836-S     | Plug - Hexagon 1/8" Tube Steel                               | 304634-S    | Bolt - Hex Hd. 5/16"-18 x 5/8"               |
| 87838-S     | Plug 3/8"-18 x .42 Socket Hex                                | 304636-S    | Bolt - Hex Hd. 3/8"-16 x 5/8"                |
| 87858-S     | Elbow - 90° 1/4" Tube Steel                                  | 304638-S    | Bolt - Hex Hd. 7/16"-14 x 5/8"               |
| 87936-S     | Elbow Adapter - Diagonal Face                                | 304643-S    | Bolt - Hex Hd. 9/16"-18 x 5/8"               |
| 88391-S     | Stud - Screw 5/16"-24, 5/16"-18 x 1-1/2"                     | 304649-S    | Bolt - Hex Hd. 5/16"-24 x 3/4"               |
| 88418-S     | Stud - Screw 7/16"-20, 7/16"-14 x 1-13/16"                   | 304650-S    | Bolt - Hex Hd. 3/8"-16 x 3/4"                |
| 88504-S     | Stud - Screw 1/2"-20, 1/2"-13 x 2-7/8"                       | 304682-S    | Bolt - Hex Hd. 5/16"-18 x 1"                 |
| 88512-S     | Stud - Screw 3/8"-24, 3/8"-16 x 3"                           | 304683-S    | Bolt - Hex Hd. 5/16"-24 x 1"                 |
| 91307-S     | Screw - Set - Square Hd. 7/16"-14 x 2-1/2"                   | 304686-S    | Bolt - Hex Hd. 7/16"-14 x 1"                 |
| 91321-S     | Screw - Set - Square Hd. 1/2"-13 x 3"                        | 304718-S    | Bolt - Hex Hd. 1/4"-20 x 1-1/4"              |
| 91533-S     | Screw - Set - Square Hd. 1/2"-13 x 2-1/2"                    | 304722-S    | Bolt - Hex Hd. 3/8"-16 x 1-1/4"              |
| 91978-S     | Screw - Set - Square Hd. 3/4"-10 x 3-1/4"                    | 304726-S    | Bolt - Hex Hd. 1/2"-13 x 1-1/4" (Gr. 5)      |
| 93264-S     | Stud 3/8"-16 x 1-7/8" (Gr. 5)                                | 304764-S    | Bolt - Hex Hd. 1/2"-13 x 1-1/2"              |
| 93319-S     | Stud Screw 3/8"-16 x 1.88 (Gr. 5)                            | 304781-S    | Bolt - Hex Hd. 7/16"-14 x 1-5/8"             |
| 93727-S     | Stud Screw 1/2"-13 x 4.00 (Gr. 13)                           | 304794-S    | Bolt - Hex Hd. 5/16"-18 x 1-3/4"             |
| 95497-S     | Button - Turn - Two Screw Base 5/16" Height                  | 304811-S    | Bolt - Hex Hd. 5/16"-18 x 1-7/8"             |
| 95503-S6    | Button - Turn - Base 21/32"                                  | 304834-S    | Bolt - Hex Hd. 1/2"-13 x 2"                  |
| 95560-S     | Grommet #5 1-3/16" Dia.                                      | 304888-S    | Bolt - Hex Hd. 7/8"-14 x 2-3/8"              |
| 95568-S     | Grommet Washer #5 1-3/16" Dia.                               | 304905-S    | Bolt - Hex Hd. 1/2"-13 x 2-3/4"              |
| 95831-S     | Strap Binding O.D. 1/2", Length 2.80                         | 304918-S    | Bolt - Hex Hd. 1/2"-13 x 3"                  |
| 95832-S     | Strap Binding O.D. 1", Length 4.50                           | 305029-S    | Pin - Rolled Spring 3/16" x 1/2"             |
| 95833-S     | Strap Binding O.D. 1-1/2", Length 6.20                       | 305054-S    | Pin - Rolled Spring 3/16" x 3/4"             |
| 95834-S     | Strap Binding O.D. 2", Length 7.90                           | 305113-S    | Pin - Rolled Spring 5/16" x 1-1/2"           |
| 95842-S     | Clip - Single 1/2" Uncoated                                  | 305147-S    | Pin - Rolled Spring 3/8" x 2-1/2"            |
| 95844-S     | Clip Wrap Around 1"  | 350668-S    | Bolt - Special Tapered 7/16"-20 x 2.69       |
| 95849-S     | Clip - Single 1/2" Uncoated                                  | 350758-S    | Bolt - Hex Hd. 5/16"-24 x 1-3/4"             |
| 95850-S     | Clip Wrap Around Uncoated 3/4"                               | 350841-S    | Nut - Spring 3/16"                           |
| 95851-S     | Clip Wrap Around Uncoated 1"                                 | 351027-S    | Clip - 5/8" Tube                             |
| 95853-S     | Clip Wrap Around Uncoated 1/4"                               | 351038-S    | Nut - 7/16"-28 Hex                           |
| 95854-S     | Clip Wrap Around Uncoated 3/8"                               | 351056-S    | Nut - Lock Adj. Screw                        |
| 95856-S     | Clip - Single 3/4" Coated                                    | 351094-S    | Nut - Tee 8-32 x .18                         |
| 95857-S     | Clip - Single 1" Coated                                      | 351139-S    | Nut - Bumper .56 x .50 x .09                 |
| 95864-S     | Clip - Single 1" Uncoated                                    | 351155-S    | Nut - Slotted Hex 7/8"-14                    |
| 95869-S     | Clip - Single 1/2" Coated                                    | 351256-S    | Washer #10 Flat .197 I.D., .38 O.D.          |
| 95873-S     | Strap - Adj. Bundling Dia. 1-3/4", 7-1/2" Length             | 351308-S    | Washer - Flat 1/4" (1/16" x 3.4)             |
| 95874-S     | Strap - Adj. Bundling 3"                                     | 351349-S    | Washer - Flat .315 Dia., 1.25 O.D.           |
| 95875-S     | Strap - Adj. Bundling 4"                                     | 351415-S    | Washer - Flat .41 I.D., .875 O.D.            |
| 97260-S     | Clamp - Hose Scr. Tangential Solid Band 2-1/6"               | 351505-S    | Washer 21/32" I.D., 1-5/16" O.D.             |
| 97329-S     | Clamp - Spg. Hose #11 Dia. .70                               | 351548-S    | Washer .84 I.D., 1.25 O.D.                   |
| 97337-S     | Clamp - Hose - Spring Wire #19                               | 351555-S    | Washer - Flat .33 I.D., .88 O.D.             |
| 97404-S2    | Ring - Retaining - Snap 9/64"                                | 351635-S    | Clip 1/2" Wraparound B/MT                    |
| 97405-S     | Ring - Retaining - External .115 I.D., .282 O.D., .025 Thick | 351759-S    | Bolt - Hex Hd. 1/4"-20 x 2-3/8" (Gr. 5)      |
| 97416-S     | Ring - Retaining - External .677 I.D., 1.30 O.D., .50 Thick  | 351796-S    | Reducer 3/4" x 3/8" Std.                     |
| 97426-S     | Ring - Retaining - Internal 1.285 O.D., .05 Thick            | 352139-S    | Connector Assy. 3/8" Pipe Thd. 1/2" Tube     |
| 97502-S     | Ring - Retaining - External .479 O.D., .042 Thick            | 352322-S    | Connection 1/4" Pt. x 3/8" Tube Straight     |
| 97511-S     | Ring - 1/4" Retaining Type SB Ext.                           | 352374-S    | Elbow 3/8" Street                            |
| 97537-S     | Ring - 1-1/2" Retaining Type SB Ext.                         | 352385-S    | Plug - Button .765 Dia.                      |
| 97568-S     | Ring - Snap 7/8"   | 352427-S    | Plug - Button .84 Dia.                       |
| 97621-S     | Ring - Retaining - Internal 1.488 O.D., .05 Thick            | 352518-S    | Screw & Washer 1/4"-28 x 5/16"               |
| 97650-S     | Ring - Retaining - External .224 I.D., .025 Thick            | 352524-S    | Fitting 5/16" x 1/4"-18 x 1/4"-18            |
| 97661-S     | Ring - Retaining - External .576 I.D., .035 Thick            | 352581-S    | Pin - Flat Hd. 5/16" x 1-1/2"                |
| 97745-S     | Ring - Retaining - External 3.515 I.D., .112 Thick           | 352598-S    | Clip   |
| 111041-ES   | Washer - Spring Lock .267 I.D., .570 O.D., .07 Thick         | 352605-S    | Clip 1.37 Long, .74 Wide                     |
| 111706-ES   | Plug - .38 x .19 Plastic                                     | 352630-S    | Clip   |
| 112873-ES   | Clip - 5/16" x 1/4" x 3/16" Pipe                             | 352848-S    | Bumper 1.24 x .06 x .68 x .38                |
| 114655-ES   | Dot - Lock 17/32" O.D.                                       | 352879-S    | Bolt Hex Hd. Spl. #10-24 x 5/8"              |
| 116426-ES   | Retainer - Spring Groove Dia. .176, High .932                | 352894-S    | Nut Retainer 8-1.24 Long, .76 Wide           |
| 300880-S    | Bolt - Hex Hd. 3/8"-16 x 2.50                                | 352929-S    | Elbow Assy. 1/4" Pipe Thd x 1/4" Tubing      |
| 300902-S    | Bolt - Hex Hd. 5/16"-18 x 3.50                               | 352973-S    | Clip   |
| 300904-S    | Bolt - Hex Hd. 3/8"-16 x 3.50                                | 352981-S    | Washer - Flat .406 I.D., 1.00 O.D.           |
| 302202-S    | Screw - Socket Hd. Cap 1/4"-20 x 1"                          | 353395-S    | Bolt - Hex Head - 5/8"-18 x 2-13/16"         |
| 302217-S    | Screw - Socket Hd. Cap 3/8"-16 x .88                         | 353433-S    | Bolt - Hex Head - 3/8"-24 x 13/16"           |
| 302235-S    | Screw - Socket Hd. Cap 1/2"-13 x 1-1/4"                      | 353473-S    | Clip - Single - 7/16" - Coated               |

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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION   |
|-------------|--|-------------|---|
| 353496-S    | Screw 10-24 x 1.62 Fillister Hd.                                 | 358244-S    | Elbow Assy. 1/8" Pipe x 1/4" Tubing                       |
| 353526-S    | Bolt - Carriage 3/8"-24 x 2.07                                   | 358253-S    | Elbow Assy. 1/2" Pipe THD x 1/2" Tubing                   |
| 353575-S    | Plug Cup   | 358258-S    | Union Assy. 5/8" x 5/8" x 3.56                            |
| 353592-S    | Washer - Flat .52 I.D., 1.00 O.D.                                | 358265-S    | Elbow Assy. 1/2" Pipe THD x 1/2" Tubing                   |
| 353607-S    | Bolt - Hex Head 3/8"-16 x 7/8"                                   | 358360-S32  | Clip - Tube 13/32" x 5/8" x 1-13/64"                      |
| 353608-S    | Ring Snap O.D. 1-7/8" I.D. 1-1/2" Thick 1/16"                    | 358467-S    | Clip .82 Long, .38 Wide                                   |
| 353651-S    | Elbow 45° 3/8"-18 - 3/8"   | 358524-S    | Clip Trans. Parking Pawl Torsion Lever Rod                |
| 353653-S    | Grommet .44 I.D., .88 O.D.                                       | 358527-S    | Screw & Washer Assy. Pan Hd. & Fiber Washer 1/4"-20 x .44 |
| 353668-S    | Clip to Hold 5/16"-15/32" Dia. Cable to .078-.090 Mat. Thickness | 358712-S    | Bumper 1.14 x .09 x .60 x .44                             |
| 353714-S    | Screw 5/16"-24 x 1.00 Hex Washer Hd.                             | 358713-S    | Bumper 1-3/64" x 1/2" x 3/64" x 19/64"                    |
| 353724-S    | Bolt - Hex Hd. 3/8"-16 x 6.00                                    | 358752-S    | Screw and Washer - Hex Head - 12-24 x 7/16"               |
| 353731-S    | Bolt Hex Hd. 1/2"-13 x 8"  | 358778-S    | Ring - Washer Retaining .558 I.D., .672 O.D.              |
| 353800-S    | Washer 25/64 I.D. 1-13/16 O.D.                                   | 358780-S    | Washer - Flat .617 I.D., .864 O.D.                        |
| 353807-S    | Nut 1/4"-20 Weld   | 358789-S    | Washer - Flat .611 I.D., .80 O.D.                         |
| 353873-S    | Grommet .80 O.D., .64 I.D.                                       | 358790-S    | Nut - Spring - 3/8"                                       |
| 353954-S    | Washer 3/8" x 1.75 x .12 Flat                                    | 358919-S    | Adapter - 3/8" to 1/2" - Brass                            |
| 354033-S    | Washer - Flat 11/32" I.D., 3/4" O.D.                             | 358980-S    | Washer - Spring 15/32" I.D., .84 O.D.                     |
| 354149-S    | Washer .45 I.D. x 1.00 O.D. Flat                                 | 359041-S    | Nut 3/4"-16 Hex   |
| 354221-S    | Bolt - Hex Hd. 5/16"-18 x 4.375                                  | 359091-S    | Bolt 3/8"-16 x .87 Hex Lock                               |
| 354321-S    | Stud 9/16"-12-18 x 2.44  | 359186-S    | Washer - Flat .504 I.D., .81 O.D.                         |
| 354416-S    | Bolt 3/8"-16 x 4.12 Hex Head                                     | 359281-S    | Nut 5/16" Tube  |
| 354422-S    | Nut - "U" Type Spring #10A                                       | 359290-S    | Snap Ring .67 I.D., .765 O.D.                             |
| 354448-S    | Washer - Flat .78 I.D., 1.75 O.D.                                | 359368-S2   | Ring 1/4"   |
| 354476-S    | Screw 1/4"-20 x 5/8" Washer Head                                 | 359382-S    | Elbow - 90° 1/2" Tube                                     |
| 354486-S    | Nut - Spring 3/8" I.D., 7/8" O.D.                                | 359387-S    | Elbow 3/8" Street   |
| 354501-S    | Coupling Half Union 5/8" Tube                                    | 359607-S    | Screw - Pan Head 5/16"-24 x .812                          |
| 354553-S    | Washer - Flat .813 I.D., 1.33 O.D.                               | 359617-S    |   |
| 354610-S    | Washer - .258 I.D. x .56 O.D. Flat                               | 359656-S    | Bolt - Hex Drilled Head - 7/16"-20 x 1-11/16" (Gr. 8)     |
| 354617-S    | Washer - Spring .314 x .50                                       | 359662-S    | Screw - Hex Washer Hd. 5/16"-18 x 3/4"                    |
| 354690-S    | Screw Swage #10-32 x .87   | 359687-S    | Grommet 1.38 Inner I.D., 1.60 Outer O.D.                  |
| 354892-S    | Clip .94 Long, .62 Wide  | 359780-S    | Screw & Washer Assy. 5/16"-24 x 1.75 Fill Head            |
| 355571-S    | Nut - Hex 3/8"-24  | 359796-S    | Washer 13/32" I.D. Flat                                   |
| 355788-S    | Clip - Wire 1.06 Long, .63 Wide                                  | 359820-S    | Washer - Flat .60 I.D., 1.80 O.D.                         |
| 355873-S    | Nut 1/8" x 3/8" Spring   | 359863-S    | Pin 1/2" x 5.20 Clevis                                    |
| 355924-S    | Nut 1/4"-28 Wing   | 359922-S    | Washer - Spring 1/2"                                      |
| 356071-S    | Nut 9/16"-24 Lock  | 359933-S    | Bumper 1.34 x .04 x .79 x .38                             |
| 356254-S    | Washer Spring 1/4" I.D. - 9/32" O.D. 5/8" Thick 1/64"            | 359948-S    | Connector Assy. 1/2" Tube                                 |
| 356257-S    | Washer - Flat .20 I.D., .62 O.D.                                 | 370003-S    | Clamp - Block 3 x 3-1/2"                                  |
| 356309-S7   | Washer - Lock 21/64 I.D., 1-1/16 O.D.                            | 370048-S    | Washer 5/16" x .66 x .17 Flat                             |
| 356375-S    | Washer - Flat .51 I.D., .81 O.D.                                 | 370050-S    | Screw #10-32 x 1/2" Hex Hd. Slotted                       |
| 356383-S2   | Washer - Spring .45 I.D., .75 O.D.                               | 370059-S    | Elbow - 90° - 1/2" x 3/8" - Brass                         |
| 356403-S    | Washer .395 I.D., .76 O.D.                                       | 370081-S    | Tee 1/2" x 1/2" Ext. x 1/2" Int. Pipe                     |
| 356414-S    | Washer - Flat - 21/64"   | 370121-S    | Pin - Spring 5/32" x 1.00                                 |
| 356422-S    | Washer .476 I.D., 1.12 O.D.                                      | 370288-S    | Washer - Flat 1.25 I.D., 1.64 O.D.                        |
| 356458-S    | Washer .56 I.D., 1.56 O.D.                                       | 370320-S    | Elbow - 45° - 1/2" Street                                 |
| 356473-S    | Washer Special Spring .51 I.D., .81 O.D.                         | 370386-S    | Bolt - Hex Head - 1/4"-20 x 1-1/4"                        |
| 356628-S    | Clip J. Type 1-13/16" x 5/8"                                     | 370444-S    | Washer - Flat 3/8" I.D., .80 O.D.                         |
| 356796-S    | Screw & Washer 12-24 x .62 Flat Hd.                              | 370521-S    | Bolt - Hex Hd. 1/4-20 x 1-3/4"                            |
| 357092-S    | Rivet .182 x 7/16" Flat Head Semi Tubular                        | 370585-S    | Bolt - Hex Lock 3/8"-16 x 4.00                            |
| 357181-S    | Nut - Hex - 5/16"-24 Fiber Lock                                  | 370587-S    | Ball 1/4" Dia.  |
| 357188-S    | Pin - Dowel .4375 x 3-5/32"                                      | 370659-S    | Bolt Hex Hd. 3/8"-16 x 1.33                               |
| 357217-S    | Plug 1.73 Bottom of Plug, 1.76 Top of Plug                       | 370804-S    | Plug 1/4" Dia. Cup  |
| 357263-S    | Pin 7/16" x 1-3/8" Clevis End Drilled                            | 370888-S    | Tee - Inverted 3/8"-18                                    |
| 357452-S    | Bolt - Hex Hd. 1/2"-13 x 3.25                                    | 370903-S    | Pin - Dowel .123 Dia., .25 Long                           |
| 357488-S    | Clip - Wiring  | 370972-S    | Clip .66 Long, .38 Wide                                   |
| 357518-S    | Connector 1/2" Male Pipe to 1/8" Female Pipe                     | 371033-S    | Ring - Snap .75 I.D., 1.025 O.D.                          |
| 357599-S    | Stud 1/2"-20 - 13 x 1-3/4"                                       | 371059-S    | Clip .62 x 1.12   |
| 357601-S    | Clip .31 x 1.00  | 371080-S    | Plug - Cup 7/16"  |
| 357635-S    | Fitting - Connector 1/4"-18, 1-17/32"                            | 371090-S    | Clip .88 x 1.00   |
| 357672-S    | Stud 1/4"-20 x 1.00 Special                                      | 371169-S    | Washer 3/8" I.D., 1.18 O.D. Cup                           |
| 357780-S    | Elbow Assy. 1/4" Pipe THD x 3/8" Tubing 45°                      | 371171-S    | Nut - Hex - 5/8"-18 Lock                                  |
| 357913-S    | Bolt - Hex Hd. 1/4"-20 x 1-5/8"                                  | 371267-S    | Elbow 1/4" - 45° Street                                   |
| 357925-S    | Elbow 5/8" TPR Comp. x 1/2" Ex. Pipe                             | 371334-S    | Tee 1/8" Pipe x 1/8" Ex. Pipe 1/8"                        |
| 357946-S    | Clip - Single - 5/8" - Coated                                    | 371353-S    | Nut - Spring .88 Wide, 1.245 Long                         |
| 357947-S    | Clip - 1.15 Long, .62 Wide                                       | 371454-S    | Bolt 5/16"-18 x 2 Hex Hd.                                 |
| 357949-S    | Clip - 1/4" Tubing   | 371496-S    | Bumper .95 Long, .62 Wide, .20 Dia.                       |
| 357951-S    | Plug 1/8"-27 x .37 Sq. Hd.                                       | 371530-S    | Nut 5/8"-18 Hex Lock                                      |
| 358016-S    | Adapter - 1/8" Pipe - Brass                                      | 371609-S    | Grommet .28 Dia.  |
|             |  | 371613-S    | Washer 9/16" I.D., 1.06 O.D. Flat                         |

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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION   |
|-------------|--|-------------|---|
| 371683-S    | Nut 3/8"-16 Hex  | 374944-S    | Clip - Single - Coated                                |
| 371692-S34  | Washer - Flat 35/64" I.D., 1" O.D.                           | 374969-S    | Clip  |
| 371840-S    | Grommet 1.00 O.D., .75 I.D.                                  | 375050-S    | Screw 1/4"-20 x 1-1/2" Hex Wshr. Head                 |
| 371916-S    | Washer - Flat - 7/8"   | 375063-S    | Rivet .187 Thick, .390 Long                           |
| 371919-S    | Plug - 1/2" Pipe   | 375086-S    | Clip .62 x 2.74                                       |
| 371921-S    | Bolt - Hex Head 1/2"-13 x 1.50                               | 375239-S    | Clip .74 Long, .62 Wide                               |
| 372076-S    | Clip .57 x 1.40  | 375273-S    | Nut 1/4"-14 Spring                                    |
| 372129-S    | Bolt - Hex Hd. Drilled End 7/8"-14 x 5-1/8"                  | 375275-S    | Washer 5/16" I.D. Flat 9/16" O.D.                     |
| 372131-S    | Elbow 90° Hose Type 1/2" x 3/8"-18                           | 375289-S    | Bolt - Carriage 5/8"-18 x 3.38                        |
| 372173-S    | Connector 1/4" x 7/16"-24                                    | 375298-S    | Washer - Flat .41 I.D., .81 O.D.                      |
| 372243-S    | Screw - Flat Head Lock 8-32 x .56                            | 375403-S    | Nut - Spring #10-12                                   |
| 372327-S    | Screw 8-32 x .12 Set   | 375418-S    | Bushing 1 x 3/4" Pipe                                 |
| 372360-S    | Nut - Hex Slotted 7/16"-20                                   | 375483-S8B  | Washer - Flat 1/4" I.D., 35/64" O.D.                  |
| 372470-S    | Plug - Button Use in .78 Hole, 12 Prong, .12 St., .187 Thick | 375523-S    | Bolt - Crown Head 3/8"-16 x .75                       |
| 372603-S    | Washer Flat .41 I.D., .81 O.D.                               | 375557-S    | Screw - Pan Head 6-20 x .50                           |
| 372638-S    | Tee Assy. 1/8" Pipe Thread 1/4" Tube                         | 375614-S    | Clip .88 Long, .42 Wide, 9/32" Dia. Holes             |
| 372700-S    | Fitting - Adapter 1/2"-20 x 1/8"-27                          | 375674-S    | Washer - Flat .48 I.D., .79 O.D.                      |
| 372703-S    | Nut - 1/4" Spring  | 375710-S    | Nut - Hex Washer Lock 1/2"-13                         |
| 372751-S    | Clip - Single - 1-3/8" - Coated                              | 375850-S    | Elbow 90° - 1/2" Tube                                 |
| 372807-S    | Clip - Single - 1-3/8" - Coated                              | 375945-S    | Nipple - 1/4"-18 x 3-1/2" Steel Pipe                  |
| 372927-S    | Nut 3/16" Spring   | 375957-S    | Pin Self Locking 1.60 Long                            |
| 372983-S    | Bolt 3/8"-16 x .75 Hex Hd. Shoulder                          | 376034-S    | Elbow 90° 1/4"-18 x 1/2"-14                           |
| 372987-S    | Nut Tube 5/16" x 1/2"-20 x 9/16" x 17/32"                    | 376113-S    | Washer 9/16" Flat 13/16" O.D.                         |
| 373035-S    | Stud 7/16"-14-14 x 5.22                                      | 376170-S    | Bolt 1/2"-20 x 3.75 Hex Hd.                           |
| 373162-S    | Bolt & Washer Assy. Hex Hd. 3/8"-16 x 1.12                   | 376187-S    | Clip 1.37 Long, .62 Wide                              |
| 373293-S    | Screw & Washer Assy. Hex Hd. 3/8"-16 x 1.0                   | 376206-S    | Rivet 1/8" x .89 Flat Head                            |
| 373325-S    | Retainer Assy. 5/16"-18 Nut                                  | 376282-S    | Stud 3/8"-16-24 x 1.62                                |
| 373354-S    | Adapter - 1/4" x 3/8" - Brass                                | 376284-S    | Bolt - Hex Locking 3/8"-16 x 1.12                     |
| 373460-S    | Screw & Washer Assy. 1/4"-20 x .50 Pan Head                  | 376290-S    | Screw 8-18 x 1.50 Oval Head (Trim)                    |
| 373513-S    | Washer Flat .34 I.D., .62 O.D.                               | 376323-S    | Bolt 5/16"-24 x .87 Round Head                        |
| 373615-S    | Screw and Washer - Pan Head - 12-24 x 1/2"                   | 376331-S    | Nut & Washer Assy. 1/4"-20                            |
| 373701-S    | Screw and Washer - Pan Head - 10-32 x 1.50                   | 376349-S    | Clip 1.43 Long, .62 Wide, .50 Dia. Hole               |
| 373713-S    | Screw & Washer Assy. Pan Head 8-32 x .50                     | 376433-S    | Clip 1.80 Long, .75 Wide, .38 Dia. Hole               |
| 373724-S    | Nipple 3/8" NPTF 1/4" Hose x 3/8"-18                         | 376434-S    | Clip 1.80 Long, .75 Wide, .31 Dia. Hole               |
| 373828-S    | Clip 2.74 Long, .87 Wide                                     | 376488-S    | Clip - Single - 7/8" - Coated                         |
| 373890-S    | Bolt & Washer Assy. - Hex Hd. 3/8" x 16 x 1-1/4"             | 376504-S    | Screw - Pan Hd. 8-18 x 1.12                           |
| 373900-S    | Screw Flat Trim Hd. 8-32 x .75                               | 376507-S    | Clip 1.16 Long, .62 Wide                              |
| 374032-S    | Screw 5/16"-18 x .75 Hex Wshr. Hd. Serrated                  | 376510-S    | Washer - Flat .322 I.D., 1.28 O.D.                    |
| 374040-S    | Washer - Flat - 5/8"   | 376588-S    | Clip .62 x 2.05                                       |
| 374048-S    | Bolt - Hex Hd. 7/16"-14 x 1.14                               | 376602-S    | Connector 1/4" Tube x 7/16"-20                        |
| 374079-S    | Clip 1.58 Long, .52 Wide, .92 Dia. Hole                      | 376633-S    | Rivet - Flat Head Shoulder .37 Dia.                   |
| 374108-S    | Grommet 1.90 O.D., 1.50 I.D.                                 | 376714-S    | Screw - Hex Washer Hd. 1/4"-14 x 1.00                 |
| 374135-S    | Nipple 3/4" Hose   | 376764-S    | Elbow 90° 5/8" Tube                                   |
| 374233-S    | Clip .62 x 1.40  | 376794-S    | Elbow 1/4" Street                                     |
| 374258-S    | Clip .75 x 2.12  | 376807-S    | Rivet 1/8" x .40 Blind                                |
| 374347-S    | Stud - Hex Shoulder 3/8"-16-16 x 3.38                        | 376866-S    | Washer Flat .387 I.D., .885 O.D.                      |
| 374403-S    | Clip 1.86 Long, .87 Wide                                     | 377094-S    | Clip 1.04 Long, .62 Wide                              |
| 374410-S    | Fitting - Tee - Brass - 1/2" x 1/2" x 1/8"                   | 377342-S    | Washer - Flat - 7/16" Nylon                           |
| 374415-S    | Grommet .75 I.D., 1.62 O.D.                                  | 377357-S    | Screw & "L" Washer Self Sealing Assy. 5/16"-18 x 1.24 |
| 374423-S    | Stud - 5/8"-11 x 5/8"-18 x 2-1/16"                           | 377446-S    | Bolt - Socket Hd. - Drilled 5/16"-18 x .25            |
| 374431-S    | Bolt - Hex Head - 7/16"-14 x 1"                              | 377494-S    | Clip - Double - 1" x 2" - Coated                      |
| 374432-S    | Pin - Steel Dowel - 5/8" x 1-1/8"                            | 377505-S    | Fitting 3/16" Tube - Banjo Type                       |
| 374454-S    | Nut - Clinch 5/16"-18  | 377589-S    | Elbow 90° 1/4" Pipe                                   |
| 374461-S    | Screw - Pan Head 10-32 - 2.50                                | 377599-S    | Clip Special 1-3/4" x 1/2" x #10-24                   |
| 374494-S    | Clip 1.00 Long, .62 Wide                                     | 377610-S    | Tee Assy. 1/8" x 1/8" Pipe - 1/4" Tube                |
| 374505-ES   | Nut - Ret. 1/2" thick O.D., 1-5/64" I.D. 7/8"                | 377619-S    | Washer 11/16" x 2.00 O.D. Special Flat                |
| 374538-S    | Seal - "O" Ring .468 I.D., .489 O.D.                         | 377630-S    | Clip 7/8" Dia. .62 x 1.20                             |
| 374539-S    | Seal "O" Ring .644 I.D., .818 O.D.                           | 377667-S    | Clip - Single - 3/8" - Uncoated                       |
| 374549-S    | Bolt 10-24 x .75 Square Neck                                 | 377668-S    | Clip - Single - 3/8" - Coated                         |
| 374576-S    | Washer 10 x .75 Flat   | 377669-S    | Clip 3/8" Wraparound B/MT                             |
| 374581-S    | Clip 2.24 Long, .87 Wide                                     | 377670-S    | Clip 1.12 Long, .62 Wide, .20 Dia. Hole               |
| 374609-S    | Clip - 5/16" Wraparound B/MT                                 | 377671-S    | Clip - 3/8" Tube 1.12 Long, .62 Wide, .17 Dia. Hole   |
| 374611-S    | Screw 10-16 x 1.00 Pan Head                                  | 377672-S    | Clip - Single - 5/8" - Coated                         |
| 374689-S    | Nut #10 Spring .44 x .64                                     | 377673-S    | Clip 5/8" Wraparound B/MT                             |
| 374704-S    | Clip .31 x 1.38  | 377697-S    | Clip 1/4" Tube 2.12 Long, .75 Wide                    |
| 374722-S    | Washer - Flat .34 I.D., .47 O.D.                             | 377699-S    | Clip 3/8" Tube 1.19 Long, .76 Wide                    |
| 374825-S    | Clip .39 x .615  | 377707-S    | Clip 3/8" Tube 1.12 Long, .62 Wide, .20 Dia. Hole     |
| 374845-S    | Retainer - Spg. 1/2" Drilled Shaft                           | 377719-S    | Clip 1.42 Long, .62 Wide                              |
| 374855-S    | Clip 1.24 x 1.75   | 377730-S    | Clip 1/4" Wraparound B/MT                             |

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| PART NUMBER | DESCRIPTION                                    | PART NUMBER | DESCRIPTION   |
|-------------|--|-------------|---|
| 377741-S    | Clip 2.89 Long, .75 Wide                       | 379906-S    | Screw - Pan Head - 6-32 x 3/8"                        |
| 377772-S    | Rivet 1/8" x .19 Oval Hd. Semi-Tubular         | 380033-S    | Stud 3/8"-16 x 2.25                                   |
| 377776-S    | Bolt - Hex Locking 3/8"-16 x 2.38              | 380035-S    | Clip 6-18   |
| 377800-S    | Screw 12-24 x .69 Hex Hd.                      | 380084-S    | Washer - Flat 1.12 I.D., 1.34 O.D.                    |
| 377801-S    | Screw 12-24 x .94 Hex Hd.                      | 380089-S    | Rivet - Oval Head - Blind 3/16" x .25                 |
| 377804-S    | Washer - Flat .317 I.D., 2.01 O.D.             | 380208-S    | Connector 1/4" Pipe, 3/8" Tube                        |
| 377806-S    | Washer - Flat .98 I.D., 1.37 O.D.              | 380226-S    | Clip 2.0 Long   |
| 377807-S    | Clip - Single - 1/2" - Coated                  | 380243-S    | Ball .25 Dia.   |
| 377808-S    | Plug - Button .88 I.D., .74 O.D.               | 380266-S    | Bolt - Hex Hd. - Fluid Type 5/16"-24 x .69            |
| 377811-S    | Ring - Retaining .66 I.D.                      | 380319-S    | Clip .62 x 1.65                                       |
| 377814-S    | Plug - Hex 1-1/16"-12                          | 380429-S    | Washer 5/16" Flat                                     |
| 377867-S    | Clip .75 x 2.07                                | 380457-S    | Clip .60 Head, .69 Long                               |
| 377870-S    | Clip 1.12 Long, .75 Wide, 15/32" Dia. Hole     | 380483-S    | Screw - Tapping 1/4"-20                               |
| 377871-S    | Clip - Single - 15/32" - Coated                | 380492-S    | Washer - Lock Internal Tooth .267 I.D., .478 O.D.     |
| 377872-S    | Clip - 1.12 Long, .75 Wide, 15/32" Dia. Hole   | 380493-S    | Washer .29 I.D., .68 O.D.                             |
| 377875-S    | Clip 1.78 Long, .62 Wide                       | 380494-S    | Nut - Hex Jam 1/4"-28                                 |
| 377876-S    | Clip 3/8" Wraparound B/MT                      | 380510-S    | Clip .40 x .80  |
| 377877-S    | Clip 1.80 Long, .62 Wide, .28 Dia of Hole      | 380604-S    | Washer 3/8" Lock                                      |
| 377878-S    | Clip 1.96 Long, .75 Wide                       | 380605-S    | Bolt - Hex Hd. 5/8"-11 x 4.50                         |
| 377880-S    | Bumper 9/16" x 5/32" x 3/64"                   | 380633-S    | Bolt - Hex Hd. Shoulder 5/16"-24 x 1.22               |
| 377887-S    | Clip 2.17 Long, .50 Wide                       | 380642-S    | Screw 8-18 x .50 Flat Head Drill                      |
| 377903-S    | Clip .75 x 2.50                                | 380647-S    | Tee - 3 Way 3/8"-18 x 1/2" x 3/8"-18                  |
| 377965-S    | Clip 2.00 Long                                 | 380651-S    | Screw & Washer Assy. 8-18 x .75 Oval Trim Hd. Drill   |
| 378015-S    | Screw & Washer Assy. 3/8"-16 x 1.50 Hex Hd.    | 380652-S    | Nut Sleeve Dia. 1/8" Long 1/4" Wide 1/4"              |
| 378056-S    | Washer .595 I.D., 1.02 O.D., .060 Thick        | 380671-S    | Connector Assy. 1/2" x 5/8" Tubing                    |
| 378289-S2   | Nut 1/4"-20                                    | 380764-S    | Washer - Spring .829 I.D., 1.11 O.D.                  |
| 378095-S    | Washer - Spring 3 Wave .41 I.D., .80 O.D.      | 380882-S    | Clamp - Hose I.D. .520                                |
| 378322-S    | Screw 10-32 x 4.12 Hex Hd.                     | 380924-S    | Screw 1/4"-14 x .54 Hex w/Hd. Drill                   |
| 378374-S100 | Screw 8-18                                     | 380927-S    | Clip .75 x 1.00                                       |
| 378399-S    | Bumper .24 I.D., .44 O.D.                      | 380952-S    | Nut 1/2"-13 Hex                                       |
| 378415-S    | Tee 3/4"-18 x 1/2" x 1/8"                      | 380976-S    | "O" Ring - .30  |
| 378459-S    | Screw 5/16"-18 x .62 Hex Wshr. Hd. Tapping     | 380978-S    | "O" Ring - 9/16"                                      |
| 378466-S100 | Bolt - Hex Hd. 10-24 x 2.12                    | 380982-S    | Elbow 3/8" 45 Fl. x 3/8" Ex. Pipe 90°                 |
| 378489-S    | Nut 3/8"-16 Hex Flg. Lk. P/T                   | 381161-S    | Tube .23 x .43 Fuel                                   |
| 378504-S    | Grommet 5/8" x 1-1/4" x 3/8"                   | 381200-S    | Hose 5/8" I.D. x 15/16" O.D.                          |
| 378544-S    | Washer 3/8" Flat 1.25 O.D.                     | 381201-S    | Hose 3/4" I.D. x 1-1/8" O.D.                          |
| 378547-S    | Screw & Washer Assy. Fillister Hd. 8-32 x 1.76 | 381208-S    | Hose 1-3/4" I.D. x 2-1/8" O.D.                        |
| 378569-S    | Clip 2.06 Long, .75 Wide                       | 381216-S    | Hose 2 I.D. x 2-3/8" O.D.                             |
| 378572-S    | Clip 1.88 Long, .62 Wide                       | 381241-S    | Hose 1.00 I.D. x 1.28 O.D.                            |
| 378608-S    | Screw 12-24 x .50 Hex Wshr. Hd. Tapping        | 381242-S    | Hose .41 I.D. x .66 O.D.                              |
| 378611-S    | Screw 8-18 x 3/8" Rd. Head                     | 381252-S    | Hose .64 I.D. x .96 O.D.                              |
| 378620-S    | Clip 1.71 in. Long, .62 Wide                   | 381309-S    | Hose 1/2" I.D., 27/32" O.D.                           |
| 378622-S    | Nut and Retainer - 1/4"-20                     | 381310-S    | Hose 5/8" I.D., 1. O.D.                               |
| 378672-S    | Clip 1.16 Long, .62 Wide                       | 381335-S    | Hose 5/32" I.D. x 7/16" O.D.                          |
| 378709-S100 | Bolt - Carriage 5/16"-18 x .75                 | 381337-S    | Hose .31 I.D.   |
| 378714-S    | Bolt - Square Neck 5/16"-18 x .88              | 381346-S    | Hose 5/32" I.D. x 9/32" O.D.                          |
| 378716-S    | Screw 8-18 x 1.00 Pan Head                     | 381348-S    | Hose 1/4" I.D. x 13/32" O.D.                          |
| 378721-S    | Ball 7/32" Dia.                                | 381373-S    | Hose 1/2" I.D. x 11/16" O.D.                          |
| 378754-S    | Elbow 1/2" x 1/4"-18                           | 381376-S    | Hose 5/32" I.D. x 13/32" O.D.                         |
| 378784-S    | Bolt 3/8"-16 x 1.12 Hex Washer Head            | 381385-S    | Hose 19/64" I.D. x 25/64" O.D.                        |
| 378785-S    | Bolt 3/8"-16 x 1.62 Hex Washer Head            | 381420-S    | Hose 17/64" I.D. x 3/8" O.D.                          |
| 378794-S    | Connector 5/16" Tube                           | 381440-S    | Hose 5/16" I.D. x 29/64" O.D.                         |
| 379037-S    | Screw & Washer Assy. Hex Head 1/4"-20 x 1.62   | 381486-S    | Hose .539 I.D. x .945 O.D.                            |
| 379047-S    | Nut 1/4"-20 Spring                             | 381578-S    | Plug Button 7/16"                                     |
| 379201-S    | Screw 10-24 x .38 Hex Head                     | 381636-S    | Clip .51 x 1.63                                       |
| 379233-S    | Ring 1-1/2" Retaining                          | 381650-S    | Washer 7/16" x 1.50 x .13 Flat Stil.                  |
| 379252-S8B  | Screw Hex Hd. 6-32 x 1/2"                      | 381673-S    | Screw 3/8"-16 x 1.38 Hex Flg. Hd. Serr.               |
| 379272-S    | Screw 1/4"-20 x .31 Hex Head                   | 381706-S    | Screw & Washer Assy. - Hex Washer Head 8-18 x 1.25    |
| 379302-S    | Nut 5/16"-18 Weld                              | 381738-S    | Clamp - Hose - 6"                                     |
| 379342-S    | Bolt - Round Head Square Neck 5/16"-18 x .88   | 381746-S    | Screw & Washer Assy. - Pan Head 5/16"-18 x 1.25       |
| 379344-S    | Bolt 5/16"-18 x .75 Shoulder                   | 381825-S    | Clip Assy. .62 x 1.60                                 |
| 379366-S    | Bumper 1-11/64"                                | 381827-S    | Tee Assy. 1/2" x 1/8" x 13/16"-18                     |
| 379430-S    | Clip 1/2" Long                                 | 381830-S    | Tee Assy. - 1/2"-1-9/32"                              |
| 379458-S    | Screw - Pan Head 5/16"-18 x .81                | 381831-S    | Connector 1/2" Pipe, 5/8" Tube                        |
| 379622-S    | Screw & Washer Assy. 5/16"-24 x 1.00           | 381857-S2   | Bolt - Hex Hd. Shldr. 1/2"-18 x 5/32"                 |
| 379662-S    | Pin 5/8" x 3.16 Clevis                         | 381905-S    | Grommet 2.62 x 3.12                                   |
| 379791-S    | Nut #10 Spring                                 | 381939-S    | Clip 1.70 Long x .62 Wide                             |
| 379827-S    | Street Ell - 1/8"                              | 382002-S    | Screw 8-32 x .50 Hex Washer Tap.                      |
| 379870-S    | Clip 1/4" 1/8" Open                            | 382062-S    | Screw and Washer - Hex Head - 3/8"-16 x 1" (Tempered) |



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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION  |
|-------------|--|-------------|--|
| 382092-S    | Screw 7/16"-14 x .75 Hex Flg. Hd. Serr.                        | 383476-S    | Bolt - Hex Washer Head 3/8"-16 x 1.25                |
| 382095-S    | Screw - Set 10-32 x 3/16"                                      | 383483-S    | Bolt - Carriage 3/8"-16 - 1.50                       |
| 382104-S    | Bolt - 12 Point Hd. 5/8"-11 x 2.25                             | 383491-S    | Bolt - Carriage 7/16"-14 x 1.00                      |
| 382118-S    | Washer - Flat .39 I.D., 1.0 O.D.                               | 383507-S100 | Screw - Flat Hd. Tapping 11/32"-18 x 3/4"            |
| 382163-S    | Nut - Spring - 8-18  | 383535-S    | Elbow - Inverted Flare Bulkhead 1/2"-20 x 2.00       |
| 382188-S    | Tee - 4 Way Inverted 1/4" Tubing                               | 383544-S    | Clip 1.40 Long, .76 Wide                             |
| 382202-S    | Screw - Pan Head Tapping 6-32 x .22                            | 383545-S    | Rivet - Oval Head Blind 3/16" x .672                 |
| 382242-S    | Clip 1" Wide x .76 Wide  | 383548-S    | Screw - Hex Washer Hd. Locking 5/16"-18 x .62        |
| 382258-S    | Screw & Washer Assy. Hex Hd. 1/4"-14                           | 383553-S    | Screw & Washer Assy. - Hex Hd. 1/4"-14 x .75         |
| 382286-S    | Bolt - Hex Hd. 3/8"-16 x 2.62                                  | 383554-S    | Rivet - Rosette Head - Blind 1/8" x 1/4"             |
| 382291-S    | Screw - Pan Head Shoulder 1/4"-20                              | 383555-S    | Washer Flat .195 I.D., .38 O.D.                      |
| 382314-S    | Bolt 3/4"-10 - 4.00  | 383558-S    | Washer - Flat #10                                    |
| 382323-S    | Connector 1/4" Hose x 1/8" Ex. Pipe                            | 383560-S    | Bolt - Square Head 3/4"-16 x 2.75                    |
| 382331-S    | Screw - Pan Head 8-32 x .88                                    | 383569-S    | Clamp - Hose 4.00 Dia.                               |
| 382346-S    | Clip - Double 1.69 Long, .76 Wide                              | 383657-S    | Bolt - Hex Head 1/2"-13 x 4.75                       |
| 382392-S    | Stud 5/16"-18 x 1.62   | 383682-S    | Plug - Cup .18 I.D.                                  |
| 382423-S    | Nut & Washer Assy. - Hex 8-32                                  | 383695-S    | Clip .85 Long, .62 Wide                              |
| 382453-S    | Strap - 12 to 16 in Adjustable                                 | 383699-S    | Bolt - Square Head 3/8"-16 x 1.12                    |
| 382464-S    | Nipple - 3/8"-18 x 1.94  | 383700-S    | Stud 9/16"-12-12 x 2.65                              |
| 382466-S    | Clip .44 x .34   | 383731-S    | Nut - Hex Slotted 3/8"-24                            |
| 382468-S    | Seal - "O" Ring .67 I.D., .687 O.D.                            | 383739-S    | Clip .98 Long, .50 Wide                              |
| 382469-S    | Screw Self Tap. Hex Hd. 7/16"-14 x 4-1/8"                      | 383740-S2   | Retainer - Spring 1-1/4" x 13/32"                    |
| 382523-S    | Screw & Washer Assy. - Hex Head 1/4"-14 x 1.00                 | 383745-S    | Nut - Hex Flange 3/8"-16                             |
| 382564-S    | Bolt Hex Hd. 1/2"-13 x 1-1/2" Self Locking                     | 383765-S    | Bolt - Hex Hd. 5/16"-18 x 3.625                      |
| 382566-S    | Screw - Pan Head 6-20 x .38                                    | 383770-S    | Stud 5/16"-18-24 x 1.44                              |
| 382570-S    | Pin - Drive - Nylon  | 383788-S    | Clip - Fuel Tube to Engine 3.62 Long, 1.25 Wide      |
| 382590-S    | Nut & Washer Assy. 5/16"-18                                    | 383789-S    | Clip - Double - 1/2" x 1/2" - Coated                 |
| 382618-S    | Screw - Hex Head Tapping 5/16"-18 - 1.38                       | 383797-S    | Rivet - Oval Hd. Blind 3/16" x .532                  |
| 382622-S    | Screw & Lock Washer Assy. - Hex Head 1/4"-20 x 1.15            | 383844-S    | Seal - "O" Ring .18 I.D.                             |
| 382635-S    | Nut - Hex Lock 7/16"-14  | 383859-S    | Nut - Hex 7/16"-14                                   |
| 382642-S    | Washer .52 I.D., .88 O.D.                                      | 383869-S    | Tee - 4 Way Pipe 1/2"-14, Hose 1/2" x 1/2" x 1/2"    |
| 382661-S    | Washer - Flat .325 I.D., 1.00 O.D.                             | 383873-S    | Bolt 3/8"-16 x 1.25 Hex Hd.                          |
| 382707-S    | Rivet Stil. 1/4" x .625  | 383877-S    | Screw & Washer Assy. - Hex Washer Hd. 5/16"-18 x .88 |
| 382732-S    | Screw & Washer 5/16"-18 x 1.19                                 | 383878-S    | Connector 1/8" Slv. x 1/8" Ex. Pipe                  |
| 382749-S    | Clip Assy. 1.0 Long, .62 Wide - Header 1/4"-20 x .782          | 383892-S    | Bolt - Tee Head - 3/8"-16 x 2-3/4" (Gr. 5)           |
| 382750-S    | Nut - Hex - Pipe 1/4"-14 x .82 I.D.                            | 383893-S    | Elbow 90° 1/4"-18 Pipe, 3/8" Hose                    |
| 382793-S    | Clip Assy. 8-18 x .88 Dia.                                     | 383902-S    | Bumper .38 Long, .25 Dia.                            |
| 382836-S    | Nut - Hex 5/16"-18   | 383921-S    | Elbow 90° 1/2" Male x 1/2" Female Pipe               |
| 382855-S    | Bolt - Hex Washer Head 3/8"-16 x 3.75                          | 383923-S    | Nipple 1/2" Hose x 1/2" Pipe x 2.41 Long             |
| 382869-S    | Bolt - Hex Head 7/16"-14 x 4.50                                | 383924-S    | Nipple - 5/8" Hose x 1/2"-14 Pipe x 1.86 Long        |
| 382900-S    | Bolt - Hex Hd. 7/16"-14 x 1.50                                 | 383927-S    | Pin 1/4" x .63 Push Nylon                            |
| 382929-S    | Clip - Wiring  | 383929-S    | Bolt 5/8"-11 x 1.75 12 Pt. Flg.                      |
| 382952-S    | Stud - 3-5/16" x 27/32" x 3/8"-16                              | 383932-S    | Bolt - Hex Hd. Shoulder 3/8"-16 x 1.44               |
| 382955-S    | Screw Oval Trim Head 8-32 x .38                                | 383934-S    | Union - Inverted 1/4" Tubing                         |
| 382975-S    | Washer - Flat .45 I.D., .87 O.D.                               | 383939-S    | Screw - Pan Head 8-12 x .50                          |
| 383030-S    | Bolt - Hex Head 7/16"-20 x 1-1/2"                              | 383955-S    | Tee 1/4"-3/8"-3/8" Pipe                              |
| 383039-S    | Nut - Hex Slotted 1/2"-20                                      | 383960-S    | Connector Assy. 5/8" Tube x 1/2" Pipe (Discharge)    |
| 383047-S    | Grommet .74 O.D., .348 I.D.                                    | 383963-S    | Bolt - Hex Washer Hd. 5/16"-18 x 2.91                |
| 383087-S    | Nut - Spring 5/16"-10  | 383965-S    | Screw - Hex Washer Hd. 5/16"-18 x 2.87               |
| 383152-S    | Screw 1/4"-14 x .62 Hex Wash. Hd. Tap.                         | 383970-S    | Tee - 1/4" Pipe x 1/2" x 1/2" Hose                   |
| 383158-S    | Nut 1/2" Push On Spg.  | 383973-S    | Stud - 9/16"-12-12 x 3.20 Shoulder                   |
| 383163-S    | Ring - Snap & Retaining O.D. 1-7/16" x I.D. 1-1/8" Thick 5/32" | 383980-S    | Elbow 3/8" Hose 3/8" Ex. Pipe 90°                    |
|             |  | 383981-S    | Elbow - 90° - 3/8"-18 x 3/8" Hose                    |
| 383165-S    | Bolt - Hex Head 3/8"-16 x .75                                  | 383988-S    | Clamp - 5.50 Hose                                    |
| 383206-S    | U-Nut 1/4"-20  | 383991-S    | Nut - Hex Lock 1/4"-20                               |
| 383242-S    | Washer - Spring .397 I.D., .656 O.D.                           | 383992-S    | Nut 9/16"-18 Hex Slot                                |
| 383258-S    | Screw & Washer Assy. 1/4"-20 x .90                             | 383995-S    | Bolt - Carriage 3/8"-16 x 1.50                       |
| 383308-S    | Nut - Spring 8-32  | 383998-S    | Bolt - Hex Hd. 3/8"-16 x 5.75                        |
| 383325-S    | Connector 1/4" Tube - 7/16"-24                                 | 384000-S    | Bolt - Hex Head - 3/8"-24 x 3/4" (Gr. 8)             |
| 383331-S    | Grommet 1-23/64" x 27/32" x 1-7/64"                            | 384010-S    | Bolt - Hex Hd. Locking 1/2"-13 x 3.58                |
| 383333-S    | Grommet O.D. 7/8" Thick - 3/8" I.D. 3/8"                       | 384013-S    | Clip - Strap   |
| 383347-S    | Nut - Spring 8-18  | 384018-S    | Nut #10 Spring .64 Long, .44 Wide                    |
| 383361-S    | Clip 2-1/2" Long, .88 Wide                                     | 384019-S    | Stud 5/16"-18 Weld                                   |
| 383431-S    | Screw & Washer Assy. Hex Hd. 8-18 x .75                        | 384020-S    | Clip - 1/2" Tube 2.12 Long, 1.25 Wide                |
| 383433-S    | Bolt Hex Head 1/2"-13 x 1.75                                   | 384022-S    | Bolt - Hex Head - 3/8"-24 x 2"                       |
| 383434-S    | Washer Flat .40 I.D., 1.38 O.D.                                | 384029-S    | Clip - Single - 1-1/4" Long, .76 Wide                |
| 383452-S    | Bolt - Carriage 7/16"-14 x 1.25                                | 384040-S    | Elbow - 3/8" Street                                  |
| 383453-S    | Nut Slotted 7/16"-20   | 384045-S    | Clip - Single - 1" - Coated                          |
| 383469-S    | Rivet - Button Head 9/16" x 1.75                               | 384048-S    | Elbow 1/4" Hose x 1/4" Ex. Pipe 90°                  |

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| PART NUMBER | DESCRIPTION   | PART NUMBER | DESCRIPTION                                       |
|-------------|---|-------------|---|
| 384056-S    | Elbow 45° 5/8" Tube x 1/2" Pipe                         | 384939-S    | Screw 8-18 x .38 Rd. Wash. Hd. Tap.               |
| 384058-S    | Reducer 1/4" x 3/8" Male Pipe                           | 384962-S    | Screw - Round Washer Head Tapping 8-18 x 2-1/4"   |
| 384062-S    | Clip - Single - 1" - Coated                             | 384965-S    | Rivet - Oval Head Blind 1/4" x .952               |
| 384071-S    | Nut 1"-20 Hex   | 384983-S    | Elbow - 90° - 3/8" - Brass                        |
| 384090-S    | Clip 1.80 Long, .62 Wide, .40 Dia. of Hole              | 384986-S    | Clip - Single - 5/8" - Uncoated                   |
| 384093-S    | Clip - 2-1/2" Long, .88 Wide                            | 385008-S    | Nut - Spring 8-18                                 |
| 384100-S    | Bolt 3/4"-16-6 Hex Head                                 | 385014-S    | Stud 1/4"-20 x 1/4" - 14 x 2"                     |
| 384105-S    | Stud 1/4"-20 x .62 Drilled                              | 385035-S2   | Screw - Shoulder 8-32 x 3/8"                      |
| 384119-S    | Elbow - 45° - 1/4" - 3/8" Pipe                          | 385038-S    | Clip - Trim                                       |
| 384120-S    | Fitting - "Y" Assy. 3/4"-16 3/8"-3/4" Hose              | 385062-S    | Stud 5/16"-18 - 3/8"-16 x 2.08 Hex Shld.          |
| 384121-S    | Fitting - "Y" 3/4"-16 3/8"-3/4" Hose                    | 385121-S    | Connector 3/8" 45 Flg. x 1/4" Ex. Pipe            |
| 384129-S    | Connector 1/4" Pipe, 3/4" Hose                          | 385129-S    | Nut 3/16" Push On Spg.                            |
| 384130-S    | Fitting - 3/4" Pipe x 1.00 Hose                         | 385147-S    | Clip 2.61 Long, 1.0 Wide                          |
| 384132-S    | Bolt 1/2"-13-1-3/4" Hex Washer Head Lock                | 385212-S    | Screw & Washer 3/8"-16 x 1-1/2" Hex Tap           |
| 384149-S    | Washer Flat 9/32" I.D., 7/8" O.D.                       | 385230-S    | Clip 1.49 Long, .75 Wide                          |
| 384151-S    | Spring - Clip .014 Thick                                | 385254-S    | Rivet - Oval Head Blind 1/4" x 1/2"               |
| 384154-S    | Screw - Oval Trim Head 8-18 .674                        | 385281-S    | Screw - Pan Head Drill Point 8-18 x 1.00          |
| 384155-S    | Screw - Oval Trim Head 8-18 x .09                       | 385300-S    | Bolt 1/2"-13 - 2-5/8" Hex Washer Head Lock        |
| 384162-S    | Insert - 1/4" Tube - Brass                              | 385323-S    | Rivet 1/4" x .94 Blind                            |
| 384171-S    | Screw and Washer - Hex Head - 8-12 x 1/2"               | 385352-S    | Nut & Retainer Assy. 1/4"-20                      |
| 384172-S    | Screw and Washer Hex Hd. 8-12 x 3/4"                    | 385371-S    | Nut & Lock Washer Hex Lock 8-32                   |
| 384177-S    | Fitting - Hose Connector - 1/2" Hose and 3/8"-18 Thread | 385400-S    | Nut & Washer Assy. 1/4"-20                        |
| 384178-S    | Washer - Flat 29/64" I.D., 1-1/4" O.D.                  | 385402-S    | Screw - Round Washer Head - 8-18 x 1" (Drill)     |
| 384185-S    | Bolt - Hex Washer Head Lock 7/16"-14-1                  | 385405-S    | Clip 3.48 Long, 1.0 Wide                          |
| 384201-S100 | Connector 17/32"  | 385420-S    | Clip - 1/4" Tube 1.26 x .75                       |
| 384206-S    | Tee 3/8" Instrt. x 3/8" Instrt. x 3/8" Ex. Pipe         | 385467-S    | Clip - 7/16" Dia. Hose                            |
| 384237-S    | Bolt - Hex Lock 5/16"-18 x .88                          | 385498-S    | Rivet - Blind 1/8" x .25 Blind                    |
| 384256-S    | Bolt - Hex Head - 3/8"-24 x 4-1/2" (Gr. 8)              | 385516-S    | Clip 1.54 Long, .76 Wide                          |
| 384259-S    | Nut - Hex Nut 3/4"-16                                   | 385541-S    | Nut #10 Hex Flg. Stamp W/SE                       |
| 384262-S    | Nut and Retainer - 8-32                                 | 385554-S    | Stud (Drilled) 9/16"-12-18 x 2.28                 |
| 384263-S    | Clip 1/4"-20  | 385558-S    | Grommet .31 I.D., 1.42 O.D.                       |
| 384266-S    | Tee Assy. 1/4" - 1/4" Tube, 1/8" Pipe                   | 385586-S    | Screw - Hex Washer Hd. 5/16"-18 x 1.38            |
| 384272-S    | Washer - Flat - 1" (Hardened)                           | 385588-S    | Nut - Spring 1/4"-14                              |
| 384275-S    | Screw & Washer Assy. - Hex Hd. 8-18 x .75               | 385633-S    | Clip 1/2" Wraparound Nut Att.                     |
| 384283-S    | Screw & Washer Assy. Hex Hd. 8-18 x .62                 | 385653-S    | Screw - Hex Head Flange Serrated 1/4"-20 x .73    |
| 384285-S    |   | 385684-S    | Screw & Washer 8-18 x .75 Oval Tr Hd Tap          |
| 384289-S    | Nut Special 1/4"-20 O.D. 1-1/2" Thick 19/64"            | 385734-S    | Bolt - Hex Washer Head Drilled End 1/2"-13 x 5.22 |
| 384296-S    | Washer - Flat 29/64" I.D., 1" O.D.                      | 385745-S    | Bolt - Hex 5/8"-11 x 2.0                          |
| 384334-S    | Bumper - Rubber   | 385746-S    | Clip 1.48 Long, 1/2" Wide                         |
| 384343-S    | Clevis Pin 5/8" x 3.44                                  | 385754-S    | Screw 8-18 x .50 Rd Wshr Hd Tap                   |
| 384349-S    | Clip - Hose 3/4"  | 385759-S    | Nut & Washer Assy. Hex - Lock 3/8"-16             |
| 384373-S    | Washer - 25/64" I.D., 19/32" I.D.                       | 385766-S    | Clamp - 3/8" Hose                                 |
| 384395-S    | Clip 1.43 Long, .62 Wide                                | 385775-S    | Bolt - Hex Washer Head 1/2"-13 x 4.38             |
| 384409-S    | Bolt - 5/8"-18 x 2.62 Hex Shoulder                      | 385854-S    | Clip Assy. 1.47 Long, .56 Wide                    |
| 384420-S    | Clip - Hose 9/16"                                       | 385880-S    | Bolt 3/4"-16 - 3-1/2" Hex Drilled                 |
| 384425-S    | Nut - Hex 7/8"-20                                       | 385893-S    | Screw and Washer - 8-18 x 3/4"                    |
| 384432-S    | Rivet - 3/16" x .31 Oval Head Blind                     | 385948-S    | Washer 5/8" x 1.50 x .12 Flat Stl                 |
| 384439-S    | Screw 8-18 x .38 Rd. Wash. Hd. Tap.                     | 385950-S    | Clamp 2-5/16" Hose                                |
| 384441-S    | Nut 3/16" St. Hex Stamp Capped W/SE                     | 385967-S    | Plug Button 1-23/32" x 7/32"                      |
| 384450-S    | Screw - Pan Head 8-12 x .38                             | 385977-S    | Nut - Rivet Type 1/4"-20                          |
| 384454-S    | Bolt - Hex Head Lock 3/8"-16 x 9/10"                    | 385986-S    | Screw & Washer Assy. Hex 10-24 x .355             |
| 384540-S    | Nut 1/4"-20 Nut Sert                                    | 385990-S    | Bolt - Hex Head 1/4"-20 x 1.17                    |
| 384556-S    | Elbow 90° 3/4" x 3/4" Hose                              | 385991-S100 | Bolt - Hex Hd. Shldr. 3/8"-16                     |
| 384568-S    | Clip 1.86 Long, 1.00 Wide                               | 385993-S    | Screw - Oval Trim Head Drill 8-18 x 1.00          |
| 384572-S    | Elbow 90° 1/4" Pipe - 3/8" Tube                         | 386028-S    | Nut - Spring Latch Type 8-18                      |
| 384576-S    | Bolt - Hex Head Shoulder - 1/4"-20 x 13/16"             | 386030-S    | Screw - Oval Trim Head - Drill 8-18 x 1.50        |
| 384609-S    | Grommet 1.88 O.D., 1.0 I.D.                             | 386038-S    | Bolt - Hex Washer Head Lock 7/16" - 14 - 2-3/4"   |
| 384648-S    | Grommet - Wiring 1.29 I.D., 1.80 O.D.                   | 386051-S    | Pin - 3/8" x .81                                  |
| 384690-S    | Grommet - Wiring .415 I.D., .925 O.D.                   | 386057-S    | Bolt - Hex Head Lock 7/16"-14 x 1.38              |
| 384709-S    | Nut 1/4"-20 "U" Spg. P/T                                | 386058-S    | Bolt - Button Head 7/16"-14 x 6.50                |
| 384710-S    | Bumper - Rubber .40 Long                                | 386062-S    | Seal - "O" Ring 1" Dia.                           |
| 384736-S    | Elbow - Adj. 9/16"-18 "O" Ring to 3/4"-16 37° Flared    | 386077-S    | Nut - Self-Threading 7/16" O.D., 5/16" Hex        |
| 384784-S    | Elbow 5/8" Tube, 1/2" Pipe                              | 386112-S    | Spacer - 3/8" x 2.69                              |
| 384809-S    | Clip 2.20 Long, .62 Wide                                | 386117-S    | Spacer - 3/8"                                     |
| 384837-S    | Bolt - Hex Head Shoulder 5/16"-18 x .75                 | 386118-S    | Spacer - 5/16"                                    |
| 384851-S    | Bolt - Hex Head 1/2"-20 - 1-1/2"                        | 386119-S    | Spacer - 3/8" Dia.                                |
| 384876-S    | Nut & Retainer 5/16"-18                                 | 386134-S    | Bolt - Hex Washer Head 5/16"-18 x 4.88            |
| 384904-S    | Nut 1/8" Sleeve   | 386142-S2   | Stud - Hex Shldr. 1/4"-20-20 x 2.9                |
| 384927-S    | Elbow 90° 1/4" Hose, 1/4" Pipe                          | 386148-S    | Clip 3/16"-9/32"                                  |

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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION   |
|-------------|--|-------------|---|
| 386149-S    | Clip 1.70 Long x 1.25 Wide                           | 387491-S    | Screw Flat Trim Head Drill 8-18 x .50                   |
| 386169-S    | Clip 1.13 Long x .62 Wide                            | 387507-S    | Stud 5/16"-18 x 1.73                                    |
| 386170-S    | Clip 1.67 Long x .62 Wide                            | 387510-S    | Clip 1.44 Long, .75 Wide                                |
| 386173-S    | Clip 2.96 Long x .75 Wide                            | 387519-S    | Tee - 1/2" Pipe, 1/4"-3/4" Hose                         |
| 386181-S    | Nut & Retainer Assy. Lock 3/8"-16                    | 387579-S    | Pin - 3/16" x 2.25                                      |
| 386199-S    | Stud & Washer Assy. Hex Shoulder 7/16"-14 x 1.96     | 387590-S    | Collar - Tension - 3/4" Flanged                         |
| 386207-S    | Bolt - Hex Washer Head 3/8"-16 x 1.44                | 387591-S    | Pin - Tension - 3/4" x 5-1/32"                          |
| 386233-S    | Bolt - 7/16"-14 x 4.38 Hex Hd Shld                   | 387592-S    | Pin - Tension - 3/4" x 5-17/32"                         |
| 386242-S    | Bolt - Hex Flange Head 3/8"-16 x .75                 | 387593-S    | Pin - Tension - 3/4" x 6-1/32"                          |
| 386260-S    | Spacer Stil. Tube 3/8" x 1.42                        | 387594-S    | Pin - Tension - 3/4" x 6-9/32"                          |
| 386282-S    | Elbow - 90° 3/4"-16 x 9/16"-18                       | 387619-S    | Clip - Nylon  |
| 386304-S    | Washer Base Locknut 8-32                             | 387646-S    | Clip - Retainer Wire 1" Long                            |
| 386311-S    | Clamp - 2-1/4" Hose                                  | 387648-S    | Clip 3/8"-3/8"  |
| 386321-S    | Nut & Washer Assy. Hex 3/8"-16                       | 387659-S    | Clip .66 Long   |
| 326328-S100 | Connector - Pipe 1/2" x 5-3/8"                       | 387706-S    | Clip - 5/8"-1/2" Tube                                   |
| 386344-S    | Clip .59" Long, .375 Wide                            | 387711-S    | Nut - 3/16" Spring                                      |
| 386355-S    | Screw 1/4"-20  | 387712-S    | Screw - Hex Washer Hd. Shoulder Tapping 3/16"-18 x 1.20 |
| 386376-S    | Spacer 5/8" x 1.75 x .06 (Cup)                       | 387747-S    | Screw & Washer Assy. Pan Head Tap 8-18 x 1.00           |
| 386385-S    | Clip 2.48 Long, .62 Wide                             | 387752-S    | Nut 1/4"-20   |
| 386459-S    | Fitting Elbow Tube 3/16"-3/4"-18 x 1/4"-18           | 387755-S    | Bolt - Hex Head 1/2"-13 x 9.50                          |
| 386477-S    | Plug - Steering Stop 2.71 Long                       | 387765-S    | Spacer 7/16" x 1.00 x .74                               |
| 386485-S    | Washer 13/16" I.D., 1.66 O.D.                        | 387771-S    | Screw & Washer 1/4"-20 x 2.12 Hex Hd                    |
| 386488-S    | Washer 1-15/16" I.D., 3-3/4" O.D.                    | 387772-S    | Clip - 1/4"   |
| 386493-S    | Retainer - 1/2" External                             | 387774-S    | Nut and Washer - Hex - 3/8"-16                          |
| 386525-S    | Clip 3" Long, .84 Wide                               | 387775-S    | Clip 1/4"-5/16"   |
| 386526-S    | Clip 3.64 Long, .76 Wide                             | 387783-S100 | Elbow - 1/4" Tube x 1/8" Pipe 90°                       |
| 386589-S    | Clip 5/16" Wraparound B/Mt                           | 387784-S    | Connector - 1/4" Tube x 1/4" Pipe - Push - Straight     |
| 386598-S    | Screw & Washer 3/8-16 x 2.44                         | 387784-S100 | Connector - 1/4" Tube                                   |
| 386650-S    | Bumper - Oblong .23 x 1.50 x 1.00                    | 387785-S100 | Connector - 3/8" Tube                                   |
| 386658-S    | Clip - Nylon   | 387786-S100 | Elbow - 3/8" Tube 90°                                   |
| 386659-S    | Washer 7/16" x 1.50 x .41 Flat Stil                  | 387787-S100 | Connector - 3/8" Tube                                   |
| 386670-S    | Bushing Sleeve 19/64" I.D. x 1.00                    | 387789-S    | Elbow - 1/2 Tube x 3/8 Ex Pipe 90° Push Connect         |
| 386740-S    | Screw - Wing 3/8"-16 x 1.25                          | 387794-S    | Connector - 1/2 Tube x 1/2 Ex Pipe Push Connect         |
| 386741-S    | Nut - Spring .32 Diameter                            | 387837-S    | Collar Tension 1/2" Flanged                             |
| 386749-S    | Screw - Torx Head Tapping 8-32 x .38                 | 387839-S    | Pin Tension 5/8" x 3-1/2"                               |
| 386750-S    | Nut - Hex Slotted - 3/4"-16                          | 387840-S    | Collar - Tension - 5/8" Flanged                         |
| 386753-S    | Screw - Pan Head Self Tapping 8-18 x .75             | 387852-S    | Pin Tension - Truss Head 1/2" x 3.42-3.12               |
| 386762-S2   | Stud - Lock Shldr. 3/8"-16-16 x 3.25                 | 387888-S    | Screw & Washer Assy. 5/16"-24 x 3.00                    |
| 386775-S    | Nut - Hex Shoulder 5/16"-18 x .75                    | 387890-S    | Clip - Single - 3/8" x 1/2"                             |
| 386840-S    | Screw - Washer Heads Shoulder 8-18 x 6.25            | 387891-S    | Clip - Single - 35/64" x 1-5/32"                        |
| 386951-S    | Clamp 1-3/8" Hose                                    | 387901-S    | Bolt - Hex Head - 3/8"-24 x 2-5/8" (Gr. 8)              |
| 386991-S    | Screw Hex Head Shoulder Type AB 10-16 x .75          | 387902-S    | Pin Tension 3/4" x 4.25                                 |
| 387000-S    | Screw - Truss Head 1/2"-13 x 1/8"                    | 387922-S    | Clip 5/16"-5/16"  |
| 387013-S    | Pin - Headed 3/16" x .79                             | 387943-S    | Nut - Hex Stamped - 11/32"                              |
| 387024-S    | Stud 9/16"-12-18 x .62                               | 387947-S    | Washer "C" .46 I.D., 1.00 O.D., 1-3/4" Thick            |
| 387039-S    | Nut 7/16"-14 Hex Flg                                 | 387948-S    | Washer "C" .46 I.D., 1.00 O.D., 1.02 Thick              |
| 387069-S    | Bolt - Hex Head 7/16"-20 x 3.00                      | 387950-S    | Screw - Flat Head - 8-12 x 1/2"                         |
| 387079-S    | Screw & Washer Assy. 8-18 x 2.00                     | 387977-S    | Nut U-Spring 8-18                                       |
| 387133-S    | Connector - Trans. Oil Tube .95 Long, .82 Wide       | 387978-S    | Screw 8-16 x .62 Pan Hd Torx                            |
| 387195-S    | "O" Ring - 7/8"                                      | 387986-S    | Screw & Washer Assy. Hex Washer Head 8-12 x .56         |
| 387199-S    | Stud 1/4"-20 & 9/32"-16 Hi-Lo 1.16 Overall Length    | 387987-S    | Screw & Washer Assy. Hex Washer Head 1/4"-14 x .62      |
| 387211-S    | Connector - 5/16" Hose x 1/8" Extr. Pipe             | 387991-S    | Screw & Washer Assy. Hex Head 8-18 x .38                |
| 387220-S    | Stud 3/8"-16-24 x 3.03                               | 387994-S    | Rivet - Blind Truss Head 1/4" x .50                     |
| 387253-S    | Nut - U Type 1/4"-20                                 | 388000-S    | Nut 3/8"-16 U Spg                                       |
| 387282-S    | Stud 3/8"-16 - 16-1.55                               | 388012-S    | Screw & Washer Pan Head 6-32 x .44                      |
| 387294-S    | Stud - 5/16"-18 - 18 x 1.53                          | 388026-S    | Clip 5.94 Long, 1.0 Wide                                |
| 387307-S    | Spacer Flanged Steel .73 x .98 x 2.51                | 388064-S    | Screw Hex Head Tapping 5/16"-18 x 1.62                  |
| 387310-S    | Screw - Hex Washer Head Tapping - 10-16 x 1/2"       | 388094-S    | Screw & Washer Assy. Hex Head 5/16"-18 x .75            |
| 387324-S    | Spacer 3/8" x 1.3 x .06 Fibre Sq.                    | 388108-S    | Clip 3.54 Long, .60 Wide                                |
| 387333-S    | Stud - 5/16"-18 - 18 x 2.11                          | 388109-S    | Nut - Stamped Flange 1/8"-27                            |
| 387334-S    | Stud - 3/8"-16 - 16 x 2.17                           | 388114-S    | Nut - Spring "U" 5/16"-18                               |
| 387375-S    | Elbow - 3/4" 45° Flare x 1/2" External Pipe          | 388115-S    | Bushing 7/16" x .36 Flg Slev                            |
| 387392-S    | Bumper - Rectangular - .50 x 1.25 x 2.50             | 388117-S    | Clip .68-.68 Wraparound B/Mt                            |
| 387415-S    | Stud & Washer Assy. - Hex Shoulder 1/4"-20-20 x 1.44 | 388142-S    | Pin - Dowel 1/2" x .98                                  |
| 387419-S    | Spacer 1/2" x .43                                    | 388151-S    | Rivet Blind Countersink Head 1/4" x .61                 |
| 387425-S    | Bumper .41 Long, .50 O.D., .14 I.D.                  | 388174-S    | Nut - Push on 3/16"                                     |
| 387449-S    | Screw - Hex Washer Head 10-32 x .25                  | 388175-S    | Nut - Push on 1/8"                                      |
| 387450-S    | Screw & Washer Assy. 8-18 x .62                      | 388182-S    | Washer - Flat 3/4 x 1.24 x .08                          |
| 387481-S    | Stud Round Shoulder 10-24 x 13-16                    | 388191-S    | Rivet Blind Oval 1/8" x .712                            |

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| PART NUMBER | DESCRIPTION  | PART NUMBER | DESCRIPTION  |
|-------------|--|-------------|--|
| 388230-S    | Bolt - Hex Head 3/8"-16 x 1.38                             | 388915-S    | Nut - Hex Stamped 3/16"  |
| 388237-S    | Plug Button .19 Dia.                                       | 388930-S    | Pin - Push .25 x 1.22  |
| 388261-S    | Pin 5/16" Push   | 388937-S    | Stud - Hex Shldr. 3/8"-16 - 7/16"-14 x 1.56                      |
| 388263-S    | Washer - Flat 1/4" I.D. 3/4" O.D.                          | 388949-S    | Washer - Flat 3/8" x .64 x .09                                   |
| 388302-S    | Clip - Open Bolt Mount 5/8" x 5/8"                         | 388953-S    | Nut - Hex 1/4"   |
| 388304-S    | Clip - Open Push On 1-1/32" Long, .50 Wide                 | 388959-S    | Tee 1/2" x 5/8" x 3/4" Hose                                      |
| 388319-S    | Pin .28 x .54 Push Nylon Spl Hd                            | 388964-S    | Rivet - Solid Button Head 9/16" x 1.375                          |
| 388328-S    | Screw Hex Shoulder T. R. Thd. 8-32 x 3/8"                  | 388967-S    | Connector 1/8" Int x 1/8" Ex Pipe Orfc                           |
| 388341-S    | Screw Hex Washer Head 8-32 x .50                           | 389000-S    | Elbow 7/8" Inv Flg x 3/4" Ex Pipe 90°                            |
| 388383-S    | Screw 10-16 x .50 Hex Washer Hd Tap                        | 389033-S    | "O" Ring Seal 19/64" I.D.  |
| 388385-S    | Bolt - Hex Head Lock 5/16"-24 x 2.38                       | 389034-S    | Pin, Clevis 1/4"-28 L.H. x 2.00 Female Thread                    |
| 388390-S    | Rivet Blind Oval Head 1/4" x 5/8"                          | 389035-S    | Washer - Rubber 3/8" x .7 x .16                                  |
| 388401-S    | Screw Oval Trim Head 1/4"-20 x .75                         | 389038-S    | Elbow 90° 1/4" Tube  |
| 388422-S    | Bolt - Reduced Hex "UBS" Head 7/16"-14 x 7.75              | 389039-S    | Elbow 3/16" Tube   |
| 388426-S    | Bolt - Reduced Hex "UBS" Head 7/16"-14 x 7.18              | 389050-S    | Screw - Pan Head Shoulder 8-32                                   |
| 388433-S    | Stud 5/16"-18 3/18"-16 x 5.4 Hex Shld                      | 389096-S    | Clip - Rod Push-in 5/16"   |
| 388439-S    | Pin Dowel - Hollow .42 I.D. .50 O.D.                       | 389114-S    | Plug - Button 1.25 Dia.  |
| 388441-S    | Nut - "U" Lock 7/16"-14                                    | 389124-S    | Elbow - 5/8" 45° Flange x 7/8"-14 Adjustable 90°                 |
| 388453-S    | Spacer 5/8" x 1.25 O.D. x 2.12                             | 389139-S    | Bolt 3/4"-10 x 3.41 Hex Hd Shld                                  |
| 388454-S    | Plug Button 1.25 x .75                                     | 389162-S    | Screw & Washer Hex Head Pilot 7/16"-14 x 1.50                    |
| 388455-S    | Bolt Hex H.D. 1/2"-13 x 5.25                               | 389178-S    | Clip - Wraparound 1.93 Long, .76 Wide                            |
| 388462-S    | Nut 8 or 10 Insert   | 389192-S    | Clip .75 Wraparound 1.35 Long, .88 Wide                          |
| 388486-S    | Screw Flat Head 5/16"-18 x .88                             | 389193-S    | Elbow 3/4" - 45° Fl. x 1-1/16" Str. Thd. Adj.                    |
| 388489-S    | Screw 8-18 x .75 Hex Washer Hd Tap                         | 389196-S    | Bolt - Hex 5/16"-18 x 3.00                                       |
| 388493-S    | Bolt 1/2"-13 x .67 Hex Crown Hd                            | 389210-S    |  |
| 388497-S    | Clamp Round Tang Screw Hose 1.22 I.D.                      | 389214-S    | Screw & Washer Asy. Hex Head 1/4"-20 x .75                       |
| 388504-S    | Nut Spring 8-18  | 389225-S    | Elbow 3/4"-45 Fl x 3/4" Ex Pipe 45°                              |
| 388527-S    | "O" Ring & Retaining Ring in Body 1.28 Long                | 389245-S    | Elbow 90° 7/16" 45° Flare x 1/4" Exterior Pipe                   |
| 388528-S    | Elbow 90° 1/4" Tube .188 Exterior Pipe                     | 389304-S    | Strap 1.0 Binding Push-In  |
| 388529-S    | Connector 1/4" Tube 1/4" Exterior Pipe                     | 389336-S    | Connector 1/2" 45° Flare x 1/2" External Pipe                    |
| 388530-S    | Connector 3/8" Tube 1/4" Exterior Pipe                     | 389345-S    | Pin - Clevis 5/8" Dia. x 4.00 Long                               |
| 388532-S    | Connector 3/8" Tube 3/8" Exterior Pipe                     | 389378-S    | Tee - 3/8" 45° Flare x 1/4" Internal Pipe x 5/16" 45° Flare      |
| 388533-S    | Connector 1/2" Tube 3/8" Exterior Pipe                     | 389414-S    | Elbow - 5/8" 45° Flare x 3/8" External Pipe 45°                  |
| 388534-S    | Elbow 90° 1/2" Tube 3/8" Exterior Pipe                     | 389415-S    | Connector 1/2" 45° Flare x 1/4" External Pipe                    |
| 388539-S    | Connector 1/2" Tube 1/2" Exterior Pipe                     | 389441-S    | Elbow - 3/8" x 3/8" Ext Pipe 90°                                 |
| 388555-S    | Clamp Round Hose Clamp .615 I.D.                           | 389495-S    | Spacer - Rubber O.D. 1/2" I.D. 1/4", 1/4" Thick                  |
| 388571-S    | Elbow 90° 5/8" 45° Flare x 3/4" Straight Thread Adjustable | 389574-S2   | Bolt - Hex Hd. 3/4"-10 x 9.90                                    |
| 388592-S    | Clip 11/16" Wraparound                                     | 389612-S    | Stud - 1/4-20-20 x 3.0 Hex Shldr                                 |
| 388595-S    | Bolt 7/16"-14 x 5.68 Hex Hd                                | 389616-S2   | Bolt - Hex Hd. 5/16"-24 x 1.38                                   |
| 388609-S    | Bumper Conical Head .40 x .47 O.D.                         | 389654-S9   | Screw - Wing 1/4"-20 x 1.09                                      |
| 388644-S    | Bolt Hex Head 7/16" x 14 x 1.47                            | 389655-S    | Stud - 1/4"-20-20 x 2.65 Hex Shldr                               |
| 388650-S    | Clamp - Hose 0   | 606690-S    | Screw - Hex Head Spring Washer M8 - 1.25 x 30mm                  |
| 388651-S    | Clamp - Hose 1   | 610020-S    | Screw - Tap Oval Head Cross Recess 4.2 - 1.41 x 22mm             |
| 388652-S    | Clamp - Hose 2   | 610087-S    | Screw - Tap Oval Head Cross Recess 4.2 - 1.41 x 13mm             |
| 388653-S    | Clamp - Hose 3   | 610128-S    | Screw - Tap Oval Head Cross Recess 4.2 - 1.41 x 19mm             |
| 388655-S    | Clamp - Hose 5   | 610939-S    | Screw - Tap Hex Washer Head 4.2 - 1.41 x 19mm                    |
| 388695-S    | Screw Pan Head Drill 8-18 x 1.25                           | 610942-S    | Screw - Tap Hex Washer Head 4.2 - 1.41 x 32mm                    |
| 388713-S    | Rivet Blind Oval Head Peel 1/4" x .94                      | 610957-S    | Screw - Tap Hex Washer Head 6.3 - 1.81 x 13mm                    |
| 388715-S    | Bolt - Hex Head End Drilled 3/14"-16 x 4.75                | 611039-S    | Screw - Tap Hex Washer Head 4.2 - 1.41 x 19mm                    |
| 388727-S    | Bolt - Hex Head 3/4"-10 x 9.25                             | 620480-S    | Nut - Hex Flg. M6-1.0 Across Flat 10mm                           |
| 388735-S    | Washer - Flat Foam 1/4" x .60 x .12                        | E600116-S   | Bolt - Hex Hd. M6-1 x 55mm                                       |
| 388737-S    | Fitting - Tee - 1/2" x 1/4" x 1/4" x 1/8" - Brass          | E600215-S   | Bolt - Hex Hd. 8 x 1.25 x 50                                     |
| 388747-S    | Nut - Hex Lock Prevailing Torque 8-32                      | E601344-S   | Bolt - M10 x 50  |
| 388750-S    | Bolt 7/16"-14 x 6.20 Pan Hd Torx                           | E602163-S   | Bolt - Hex Hd. 8 x 1.25 x 55                                     |
| 388776-S    | Rivet Solid Button Head 9/16" x 1.50                       | E602188-S   | Bolt - Hex M8 x 25mm x 25mm                                      |
| 388777-S    | Cross 1/4" Tube Inverted Flare                             | E602205-S72 | Bolt - Hex M10 x 14mm  |
| 388802-S    | Screw & Washer Assy. 8-18 Hex Head                         | E603163-S   | Screw - Pan Hd. 6 x 1.0 x 10                                     |
| 388814-S    | Nut 8-18 J   | E603530-S   | Screw - Pan Hd. X-Recess M4-8 x 16mm                             |
| 388817-S    | Connector - 5/8" Hose x 1/2" External Pipe                 | E605248-S   | Screw - Countersunk Hd. X-Recess, Tooth Lock Washer M5-10 x 14mm |
| 388824-S    | Screw & Washer 1/2"-13 x 1 Hex Hd                          |             |  |
| 388835-S    | Screw - Hex Washer Head 14-10 x .65                        | E610225-S   | Screw - Pan Hd. - Self Tapping 3.5 x 9.50                        |
| 388843-S    | Spacer 7/16" x 1.0 x 1.3                                   | E610250-S   | Screw - Pan Hd. - Self Tapping 4.2 x 2.5                         |
| 388844-S    | Spacer 7/16" x 1.0 x .80                                   | E610269-S   | Screw - Pan Hd. - Self Tapping 4.8 x 22                          |
| 388853-S    | Screw - Round Washer Head Self Drill 8-18 x .50            | E610365-S   | Screw - Sheet Metal 10-4.8 x 3/8"                                |
| 388859-S    | Screw & Washer Asy. Hex Flange Head 3/8"-16 x 2.30         | E610366-S   | Screw - Sheet Metal 10-4.8 x 1/2"                                |
| 388868-S    | Tee - Branch 45° 3/4" Hose                                 | E620431-S   | Nut - Hex M4-0.7 x 8.1mm   |
| 388882-S    | Stud & Washer 3/8"-16 x 2.75                               | E620432-S   | Nut - Hex M6-1 x 11.5mm  |
| 388883-S    | Nut & Retainer "U" 3/8"-16                                 | E630021-S   | Washer - Flat 5.3 I.D., 10.0 O.D.                                |
| 388885-S    | Ring 1/2" Retain Ext                                       | E630024-S   | Washer - Flat 6.4 I.D., 12.0 O.D.                                |

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| PART NUMBER  | DESCRIPTION   | PART NUMBER | DESCRIPTION   |
|--------------|---|-------------|---|
| E630026-S    | Washer - Flat 6.4 I.D., 17.0 O.D.                               | N604158-S   | Screw Machine - Oval Head M6 x 1.0 x 35                             |
| E630030-S    | Washer - Flat 8.4 I.D., 25.0 O.D.                               | N605531-S   | Bolt - Hex Hd. M8 x 1.25 x 20                                       |
| E630171-S    | Washer Lock Split Ring M5 I.D. 5.1mm O.D. 8.5mm Thick 1.2mm     | N605532-S   | Bolt - Hex Hd. M8 x 1.25 x 25                                       |
| E630173-S    | Washer - Spring Lock 8.2 I.D., 14.2 O.D.                        | N605534-S   | Bolt - Hex Hd. M8 x 1.25 x 35                                       |
| E630174-S    | Washer - Spring Lock 10.2 I.D., 17.2 O.D.                       | N605544-S   | Bolt - Hex Hd. M10 x 1.50 x 20                                      |
| E630217-S71  | Washer - Lock Spring M6   | N605545-S   | Bolt - Hex Hd. M10 x 1.50 x 25                                      |
| E646458-S    | Pin - Spring Dia. 4mm, Length 8mm                               | N605546-S   | Bolt - Hex Hd. M10 x 1.50 x 30                                      |
| E647511-S    | Rivet - Blind Dia. 3.25mm, Length 6.5mm                         | N605547-S   | Bolt - Hex Hd. M10 x 1.50 x 35                                      |
| E647522-S    | Rivet - Blind Dia. 3.94mm, Length 7.2mm                         | N605548-S   | Bolt - Hex Hd. M10 x 1.50 x 40                                      |
| E662312-S    | Clip -Dup 4 Dia. 4mm  | N605670-S   | Bolt - M8-1.25 x 90   |
| E800154-S72  | Screw - Washer - Hex Hd. M6 x 45mm                              | N605670-S   | Bolt - Hex Hd. M8 x 1.25 x 90                                       |
| E800410-S76  | Bolt - Hex Hd. M8 x 120mm                                       | N605671-S   | Bolt - Hex Hd. M8 x 1.25 x 100                                      |
| E800417-S    | Screw Flanged Hex Hd M10 x 25mm                                 | N605688-S   | Bolt - Hex Hd. M10 x 1.50 x 80                                      |
| E802001-S    | Screw - Pan Head Pilot End - Self Locking M5 x .8 x 16          | N605711-S   | Bolt - Hex Hd. M12 x 1.75 x 120                                     |
| E802102-S    | Screw - Pan Head - Cross Recessed M5 x 1 x 9                    | N605771-S   | Bolt - Hex Flange Hd. M6 x 1 x 14                                   |
| E802147-S    | Screw - Pan Head — Dog Point M5 x 14                            | N605798-S   | Bolt - Hex Flange Hd. M10 x 1.50 x 16                               |
| E804089-S72  | Bolt - Rd. Hd. M6 x 25mm  | N605799-S   | Bolt - Hex Flange Hd. M10 x 1.50 x 20                               |
| E804137-S    | Screw Stud - M10 x 1.5 x 16, Short End M10 x 1.5 x 30, Long End | N605800-S   | Bolt - Hex Flange Hd. M10 x 1.50 x 25                               |
| E810102-S    | Bolt - Hex Hd. - Self Tapping - Pointed 7 x 19                  | N605890-S   | Bolt - Hex Flange Hd. M6 x 1.00 x 14                                |
| E812102-S    | Screw   | N605891-S   | Bolt - Hex Flange Hd. - Piloted M6 x 1.00 x 16                      |
| E812103-S    | Screw - Pan Hd. - Self Tapping M5.50 x 16                       | N605892-S   | Bolt - Hex Flange Plt M6 x 1 x 20                                   |
| E820100-S    | Nut M8  | N605893-S   | Bolt - Hex Flange Hd. - Piloted M6 x 1.00 x 25                      |
| E830104-S    | Washer - Flat 6.6 I.D., 20.0 O.D.                               | N605904-S   | Bolt - Hex Flange Hd. - Piloted M8 x 1.25 x 19                      |
| E830116-S    | Washer - 10.2 I.D., 14.4 O.D.                                   | N605905-S   | Bolt - Hex Flange Hd. - Piloted M8 x 1.25 x 20                      |
| E830290-S    | Washer - Flat 16.5 I.D., 25.5 O.D.                              | N605906-S   | Bolt - Hex Flange Hd. - Piloted M8 x 1.25 x 25                      |
| E830292-S    | Washer - Flat 14.5 I.D., 24.0 O.D.                              | N605909-S   | Bolt - Hex Flange Hd. - Piloted M8 x 1.25 x 40                      |
| E830443-S    | Washer - Flat 6.4 I.D., 20.0 O.D.                               | N605932-S   | Bolt - Hex Flange Hd. - Piloted M12 x 1.75 x 25                     |
| E832102-S    | Washer - Countersunk - External Tooth Lock 6.4 I.D., 18.0 O.D.  | N605946-S   | Bolt - Hex Flange Plt M14 - 2.0 x 30                                |
| E834027-S    | Washer - Flat 6.3 I.D., 14.0 O.D.                               | N606001-S   | Bolt - M5 x .8 x 30 Hex Flange Hd.                                  |
| E834062-S    | Washer - 10.0 I.D., 14.5 O.D.                                   | N606052-S   | Bolt - Hex Flange Hd. M8 x 1.25 x 110                               |
| E834064-S    | Spacer - 15.6 I.D., 20.0 O.D.                                   | N606569-S   | Bolt - Hex Flange Hd. M10 x 1.50 x 90                               |
| E834105-S    | Washer - Flat 5.0 I.D., 11.0 O.D.                               | N606588-S   | Bolt M12 - 1.75 x 90 Hex Flange Plt                                 |
| E836056-S    | Washer - Waved 4.3 I.D., 9.0 O.D.                               | N606589-S   | Bolt M12 - 1.75 x 100 Hex Flange Plt                                |
| E842222-S    | Rivet - Blind - Flat Head 3.2 x 7.88                            | N606608-S   | Bolt - Hex Flange Hd. - Piloted M14 x 2.0 x 100                     |
| E844100-S    | Bolt - Carriage Rib Neck 4.6 x 14.0                             | N606664-S   | Screw - Hex Hd. & Conical Spring Washer Assy. M5 x .8 x 20          |
| E857117-S    | Plug Button Rubber O.D. 44.5mm Thick 8.6mm                      | N606676-S   | Screw & Washer M6 x 1 x 22.5 Hex Hd. Plt                            |
| E860000-S100 | Retainer - Ball M30 x 27mm                                      | N606677-S   | Screw & Washer M6 x 1 x 27.5 Hex Hd. Plt                            |
| E862102-S    | Clamp - Hose 50.0-70.0 Clamp Range                              | N606678-S   | Screw & Washer M6 x 1 x 32.5 Hex Hd. Plt                            |
| E863003-S    | Clamp - Hose Dia. 70mm Thk. 7.22mm                              | N606689-S   | Screw & Washer M8 x 1.25 x 28 Hex Hd. Plt                           |
| E863024-S    | Strap 210 x 6.5   | N606690-S   | Screw & Washer M8 x 1.25 x 30 Hex Hd. Plt                           |
| E864230-S    | Clip - Pipe or Cable 2.0 High, 13.0 Long                        | N606693-S   | Screw & Washer M8 - 1.25 x 45mm Hex Hd. Plt                         |
| E864648-S    | Clip Special Retaining 11.4mm x 7.5mm x 2.2mm                   | N606703-S   | Screw & Washer M10 x 1.50 x 33.5 Hex Hd.                            |
| E890107-S    | Bushing Hinge 20mm x 7mm  | N610020-S   | Screw - Tapping - Oval Head 4.2 x 1.41 x 22 Carbon Steel Type AB    |
| N623333-S    | Nut "U" M8 x 1.25   | N610021-S   | Screw - Tapping - Oval Head 4.2 x 1.41 x 25 Carbon Steel Type AB    |
| N601313-S    | Bolt - Hex Hd. M10-1.50 x 40                                    | N610025-S   | Screw - Tapping - Oval Head 4.2 x 1.41 x 50 Carbon Steel Type AB    |
| N601793-S    | Bolt - Hex Hd. Lking M10 x 1.50 x 50                            | N610053-S   | Screw - Tapping - Oval Head 4.2 x 1.41 x 38 Stainless Steel Type AB |
| N601816-S    | Bolt - Hex Hd. Lking M16 x 2.00 x 30                            | N610092-S   | Screw - Tapping - Oval Head 4.2 x 1.41 x 32 Carbon Steel Type B     |
| N602186-S    | Screw - Hex Hd. M8 x 1.25 x 16                                  | N610128-S   | Screw - Tapping - Oval Trim Head 4.2 x 1.41 x 19 Carbon Steel       |
| N602551-S    | Screw Machine & Spring Lock Washer Assy. M8 x 1.25 x 30         | N610133-S   | Screw - Tapping - Oval Trim Head 4.2 x 1.41 x 44 Stainless Steel    |
| N602568-S    | Screw Machine & Spring Lock Washer Assy. M10 x 1.50 x 16        | N610907-S   | Screw - Tapping - Hex Washer Hd. 2.8 x 1.06 x 13 Type AB            |
| N602570-S    | Screw Machine & Spring Lock Washer Assy. M10 x 1.50 x 25        | N610935-S   | Screw - Tapping - Hex Washer Hd. 4.2 x 1.41 x 6.3 Type AB           |
| N602571-S    | Screw & Washer M10-1.5 x 30 Hex Hd                              | N610936-S   | Screw - Tapping - Hex Washer Hd. 4.2 x 1.41 x 10 Type AB            |
| N602572-S    | Screw Machine & Spring Lock Washer Assy. M10 x 1.50 x 35        | N610939-S   | Screw - Tapping - Hex Washer Hd. 4.2 x 1.41 x 19 Type AB            |
| N602709-S    | Screw Machine & Conical Spring Washer Assy. M4 x .7 x 12        | N610942-S   | Screw - Tapping - Hex Washer Hd. 4.2 x 1.41 x 32 Type AB            |
| N602711-S    | Screw Machine & Conical Spring Washer Assy. M4 x .7 x 16        | N610957-S   | Screw - Tapping - Hex Washer Hd. 6.3 x 1.81 x 13 Type AB            |
| N602726-S    | Screw Machine & Conical Spring Washer Assy. M6 x 1.00 x 14      | N610958-S   | Screw - Tapping - Hex Washer Hd. 6.3 x 1.81 x 16 Type AB            |
| N602734-S    | Screw Machine & Conical Spring Washer Assy. M8 x 1.25 x 25      | N610962-S   | Screw - Tapping - Hex Washer Hd. 6.3 x 1.81 x 32 Type AB            |
| N603232-S    | Screw Machine - Pan Head M3.5 x .6 x 10                         | N610963-S   | Screw - Tapping - Hex Washer Hd. 6.3 x 1.81 x 38 Type AB            |
| N603243-S    | Screw Pan Hd. M4 x .7 x 12                                      | N611038-S   | Screw - Tapping - Hex Washer Hd. 4.2 x 1.41 x 16 Type B             |
| N603246-S    | Screw Machine - Pan Head M4 x .7 x 20                           | N611039-S   | Screw - Tapping - Hex Washer Hd. 4.2 x 1.41 x 19 Type B             |
| N603255-S    | Screw Machine - Pan Head M5 x .8 x 20                           | N611040-S   | Screw - Tapping - Hex Washer Hd. 4.2 x 1.41 x 23 Type B             |
| N604120-S    | Screw - Oval Hd. M3.5 x 0.6 x 6                                 | N611041-S   | Screw - Tapping - Hex Washer Hd. 4.2 x 1.41 x 25 Type B             |
| N604153-S    | Screw Machine - Oval Head M6 x 1.0 x 14                         |             |   |
| N604155-S    | Screw Machine - Oval Head M6 x 1.0 x 20                         |             |   |

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|-------------|---|-------------|---|
| N611042-S   | Screw - Tapping - Hex Washer Hd. 4.2 x 1.41 x 32 Type B | N800349-S   | Screw - Oval Trim Head M5 x 0.8 x 25.0                                |
| N611059-S   | Screw - Tapping - Hex Washer Hd. 6.3 x 1.81 x 19 Type B | N800351-S   | Screw 4.2 x 1.41 x 25 Oval Hd. S/D                                    |
| N611062-S   | Screw - Tapping - Hex Washer Hd. 6.3 x 1.81 x 32 Type B | N800357-S   | Pin - Circle Grooved Body 5.2 x 8.0                                   |
| N611133-S   | Screw - Tapping - Hex Washer Hd. 4 x .70 x 14 Type D    | N800358-S   | Screw & Ret M6 x 1 x 20 Wafer Hd.                                     |
| N611135-S   | Screw Hex Washer Tap M4 x .70 x 20                      | N800377-S   | Bolt - Hex Hd. Flange Serrated Plt. M8-1.25 x 20                      |
| N611192-S   | Screw M8 - 1.25 x 12 Hex Washer Tap                     | N800382-S   | Bolt M10 x 1.5 x 105.5 Hex Hd. Shld                                   |
| N620013-S   | Nut - Hexagon M8 x 1.25                                 | N800392-S   | Screw & Washer - Hex Washer Self-Drilling M4.2 x 1.4 x 16             |
| N620043-S   | Nut - Hexagon M12 x 1.75                                | N800394-S   | Screw & Washer M6 x 1.0 x 20. Hex Head                                |
| N620360-S   | Nut - Stamped Hex - Faceted Flange M4 x .4              | N800396-S   | Screw M4.2 x 1.41 x 13 Hex Washer Hd. S/D                             |
| N620391-S   | Nut and Washer Assy. M4 x .7                            | N800399-S   | Screw M4.2 x 1.41 x 32 Oval Hd. S/D                                   |
| N620434-S   | Nut - Hex Prevailing Torque M10 x 1.5                   | N800446-S   | Nut M6 x 1.0 Rivet  |
| N620468-S   | Nut M10 x 1.5 Hex Lock P/T                              | N800449-S   | Clip - M11  |
| N620481-S   | Nut M8 x 1.25 Hex Flange Lock P/T                       | N800452-S   | Clip - 46.4 Long, 12.5 Wide   |
| N620482-S   | Nut M10 x 1.5 Hex Flange Lock P/T                       | N800458-S   | Screw M4.8 x 1.5 x 13 Hex Washer Hd. Tapping                          |
| N620603-S   | Nut - Hex Prevailing Torque M12 x 1.75                  | N800460-S   | Screw & Washer Assy. - Truss Head M10 x 1.5 x 25.0                    |
| N620604-S   | Nut - Hex Prevailing Torque M14 x 2.0                   | N800462-S   | Bolt - Hex Flange Shoulder M10 x 1.5 x 28.5                           |
| N621900-S   | Nut & Conical Washer M4 x .7                            | N800470-S   | Screw - Hex Washer Hd. Self-Drilling M6.3 x 1.81 x 19.0               |
| N621901-S   | Nut & Washer M4 x .7 Hex                                | N800473-S   | Screw - Hex Washer Hd. Self-Drilling M4.2 x 1.41 x 13.0               |
| N621903-S   | Nut & Conical Washer M5 x .8                            | N800481-S   | Screw & Washer - Hex Tap M4.2 x 1.41 x 25.0                           |
| N621905-S   | Nut & Washer M6 x 1 Hex                                 | N800488-S   | Nut M5 Hex Stamped  |
| N621907-S   | Nut & Washer M6 x 1.0 Hex                               | N800499-S   | Clip - M11  |
| N621926-S   | Nut & Washer M6 x 1 Hex W/Seal                          | N800500-S   | Screw & Washer - Hex Tap M4.2 x 1.41 x 19                             |
| N621927-S   | Nut & Washer M6 x 1 Hex W/Seal                          | N800507-S   | Screw & Washer - Hex Head Pilot M6 x 1.0 x 18.5, Washer 2.18 Thick    |
| N621942-S   | Nut & Washer M10 x 1.5 Hex                              | N800508-S   | Screw & Washer - Hex Head Pilot M6 x 1.0 x 18.5, Washer 2.05 Thick    |
| N621943-S   | Nut & Washer M10 x 1.5 Hex                              | N800512-S   | Bolt - Hex Head M24-3 x 90  |
| N621946-S   | Nut & Washer M12 x 1.75 Hex P/T                         | N800527-S   | Screw & Washer - Hex Head Pilot M6 x 1.0 x 18.5, Washer 1.55 Thick    |
| N623330-S   | Nut M4 x .7 "U" Spg                                     | N800528-S   | Screw - Oval Trim Self-Drilling M4.2 x 1.41 x 44.0                    |
| N623331-S   | Nut "U" Wide Panel Range M5 x 0.8 Short                 | N800530-S   | Bolt M6 x 1.0 x 25 Hex Hd. Shld                                       |
| N623332-S   | Nut "U" M6 x 1  | N800541-S   | Spacer 12.7 x 31.8 x 7.94   |
| N623333-S   | Nut "U" M8 x 1.25                                       | N800544-S   | Screw M3 x .5 x 7.4 Hex Washer Hd.                                    |
| N623343-S   | Nut "U" M8 x 1.25                                       | N800545-S   | Screw M5 x .8 x 19.1 Headless Set                                     |
| N623401-S   | Nut - Stamped M4 Self-Threading Flange Type             | N800573-S   | Spacer 12.5mm x 19 x 33   |
| N623402-S   | Nut - Stamped M5 Self-Threading Flange Type             | N800576-S   | Screw & Washer M6 x 1 x 27.5 Hex Hd.                                  |
| N623421-S   | Nut - Stamped M4 Hex                                    | N800594-S   | Bolt M12 x 1.75 x 27 Twelve Pt  |
| N623422-S   | Nut - Stamped M5 Hex                                    | N800622-S   | Bolt - Carriage M6 x 1.0 x 20   |
| N623423-S   | Nut - Stamped M6 Self-Threading Flange Type W/Sealer    | N800625-S   | Bolt & Retainer Assy. M6 - 1.0  |
| N630066-S   | Washer 5mm x 10 x 1.45 Flat                             | N800649-S   | Ring - Retainer Internal 134.6mm-2.38 Thick                           |
| N630089-S   | Washer - Flat Hardened 12mm x 24 x 2.75                 | N800661-S   | Bolt - Hex Flange Head M8 x 1.25 x 105.0mm                            |
| N630090-S   | Washer - Flat 14mm x 28 x 2.75                          | N800663-S   | Screw - Truss Head Piloted M8 x 1.25 x 22                             |
| N630172-S   | Washer - Helical Spring Lock Hvy. 4mm                   | N800664-S   | Bolt - Carriage Piloted M8 x 1.25 x 23                                |
| N630187-S   | Washer - Helical Spring Lock Hvy. 14mm                  | N800678-S   | Seal - "O" Ring 108.0 x 2.7   |
| N642569-S   | Pin Cotter 3.2mm x 32 Extend Prong Sq. Cut              | N800692-S   | Bolt - Hex Head M12 x 1.75 x 40                                       |
| N642589-S   | Pin Cotter 4mm x 32 Extend Prong Sq. Cut                | N800696-S   | Clip M11 Wraparound B/Mt  |
| N644265-S   | Rivet - Semi - Tubular Oval Head 2.5 x 6.4              | N800705-S   | Screw - Hex Washer Head Tap M4.2 x 2.1 - Thd. are 12.7 Long           |
| N647096-S   | Rivet - Solid Button Hd. 10 x 25                        | N800706-S   | Screw & Washer - Hex Washer Head Tap M4.2 x 2.1 - Thds. are 14.2 Long |
| N647097-S   | Rivet - Solid Button Hd. 10 x 28                        | N800710-S   | Nut - Stamped M4 x 0.7  |
| N647098-S   | Rivet - Button HD. M10 x 30mm                           | N800737-S   | Pin - Push 6.3 x 17.2   |
| N663104-S   | Ring 5mm Retaining Type RB Ext.                         | N800737-S   | Clamp - 82.0mm - Hose   |
| N800045-S   | Screw & Washer Assy. M8 x 30.00                         | N800754-S   | Clamp - 81mm Round Crimp Hose   |
| N800077-S   | Nut M10 Hex Flange Lock                                 | N800761-S   | Screw M4.2 x 1.41 x 19 Oval Hd. S/D                                   |
| N800085-S   | Screw & Washer Hex Hd. M8 x 55                          | N800764-S2  | Screw - Washer Pan Hd. M6 x 16mm                                      |
| N800096-S   | Screw - Hex Serrated Washer Head M8 x 18.0              | N800769-S   | Bushing - Flange Sleeve 19.8 I.D. x 15.8                              |
| N800114-S   | Strap - 8.81 Long                                       | N800792-S   | Washer - Flat 12mm x 32 x 3   |
| N800122-S51 | Screw - Hex Hd. M8 x 80                                 | N800836-S   | Bolt - "U" M10 x 94.5/115.8   |
| N800169-S   | Nut - Hex Flange Lock M12 x 1.75                        | N800848-S   | Nut M10 x 1.25 Hex Flange Lock P/T                                    |
| N800174-S   | Nut - Hex Lock M6 x 1                                   | N800850-S   | Stud M10 x 1.25 x 1.25 x 63   |
| N800196-S   | Bushing - 13 I.D. x 12.5 Sleeve                         | N800863-S   | Pin - Push 8.0 x 20.4   |
| N800197-S   | Spacer - 4mm x 13 x 83.2                                | N800877-S   | Spacer - 10mm x 19.1 x 15.0   |
| N800199-S   | Screw M10 x 1.5 x 33 Hex Flange Serrated                | N800883-S   | Bolt M12 x 1.75 x 40 Carriage   |
| N800202-S   | Screw M8 x 1.25 x 30 Hex Washer Tapping                 | N800903-S   | Pin Clevis 10 x 52.2  |
| N800273-S   | Screw & Washer Fillister Head M6-1.0 x 33               | N800904-S   | Washer - Spring Curved 20mm x 27.5 x 0.38                             |
| N800278-S   | Clip - 25mm I.D., 48.1mm Long, 19.0mm Wide              | N800905-S   | Bolt Carriage M6 x 1.0 x 60mm   |
| N800297-S   | Bolt M8 x 1.25 x 23 Hex Washer Shld                     | N800912-S   | Clip - Open Rivet 8mm x 4.76mm  |
| N800307-S   | Stud - M10-1.5 x 53.0                                   | N800913-S   | Clip - Open Rivet 9.7mm x 7.3mm                                       |
| N800312-S   | Screw & Washer M6.3 x 1.81 x 16 Hex Hd. Tapping         |             |   |
| N800316-S   | Screw Flat Head Tap. M8 x 1.25 x 25.4                   |             |   |
| N800317-S   | Screw & Washer - Flat Head M6 x 1.0 x 16.0              |             |   |
| N800335-S   | Nut M8 Stamped Flange S/T                               |             |   |
| N800345-S   | Screw - Oval Head M4 x 0.7 x 16                         |             |   |

# Standard and Utility Parts Catalog

| PART NUMBER | DESCRIPTION   | PART NUMBER | DESCRIPTION                                      |
|-------------|---|-------------|--|
| N800914-S   | Clip - Wrap Around Bolt Mounted 9.5                               | N801573-S   | Nut & Retainer Assy. M12 x 1.75 - 74.5 Long      |
| N800917-S   | Screw & Washer M6 x 1 x 19 Hex Hd. Tapping                        | N801574-S   | Nut & Retainer Assy. M14 x 2.00                  |
| N800919-S   | Spacer - Tube 16.0 x 22.5 x 54.5                                  | N801589-S   | Bolt - Pan Head Shoulder Pilot M6 x 1.00 x 27    |
| N800920-S   | Bolt M8 x 1.25 x 48 Wing Plt                                      | N801775-S   | Screw M4.2 x 1.41 x 9.6 Rd. Washer Hd. Drill Pt. |
| N800926-S   | Nut M10 x 1.5 Hex Acorn   | N801833-S   | Nut M10 x 1.5 x 25.0 Hex Flange Lock F/R         |
| N800944-S   | Screw & Washer - Oval Trim Hd. Self-Drilling<br>M4.2 x 1.41 x 4.4 | N801838-S   | Bolt M6 x 1.0 x 25.0 Hex Washer Hd. Shldr.       |
| N800947-S   | Screw & Washer M6 x 1 x 2.75 Hex Hd.                              | N801877-S   | Screw & Washer M5 x .08 x 20. Hex Hd. Plt.       |
| N800958-S   | Bolt - Pan Hd. Shoulder M6 x 1.0 x 23.0                           | N801921-S   | Screw & Washer Hex Hd. Type Tr. M8 x 1.25 x 25.0 |
| N800962-S   | Clip 10 x 10 Open B/Mt  | N801947-S   | Screw & Washer M6 x 1.0 x 19.0 Hex Hd. Pilot     |
| N800968-S   | Clip - Retaining Rectangular External - 13mm                      | N801970-S   | Nut M8 Stamped Flange S/T                        |
| N800990-S   | Stud - M10 x 1.50 x 1.50 x 62.5                                   | N802006-S   | Nut & Washer M8 x 1.25 Hex                       |
| N801006-S   | Clip - Wrap Around 154.5 Long, 25 Wide                            | N802038-S   | Spacer M12 x 1.75 x 66 Flange Thread Stil.       |
| N801044-S   | Nut "U" - 4.2 x 1.41  | N802040-S   | Spacer 19 x 24 x 81 Flange Stil.                 |
| N801047-S   | Screw & Washer Assy. M6.3 x 1.81 x 16.0 Hex Head                  | N802070-S   | Spacer M12 x 1.75 x 72 Rnd. Stil.                |
| N801049-S   | Clip - Wrap Around Bolt Mounted 18.5, 53.5 Long, 20.0 Wide        | N802084-S   | Washer 10mm x 41.5 x 3 Cone Stil.                |
| N801053-S   | Screw - Flat Head M6 x 1.0 x 12.0                                 | N802107-S   | Screw M6 x 1.0 x 50.5 Hex Flange Shld.           |
| N801054-S   | Washer - Flat 10mm x 35 x 1                                       | N802109-S   | Washer O.D. .48mm I.D. 13mm 4.32 Thick           |
| N801085-S   | Bolt "U" M10 x 1.5 x 109 x 141.5 High                             | N802124-S   | Clip 8.0 - 8.0 Open Push-In                      |
| N801108-S   | Screw - Round Head M6 x 9 x 8.3                                   | N802125-S   | Clip 8.0 - 8.0 Open Push-In                      |
| N801117-S   | Nut "U" M8 x 1.25   | N802134-S   | Screw & Washer M4.2 - 1.41 x 13 Hex Tap          |
| N801145-S   | Nut & Retainer — M10 x 1.50                                       | N802144-S   | Pin 7.0mm x 4.8mm Push                           |
| N801161-S   | Stud - Round Shoulder Pilot M8-1.25 x 40.00                       | N802146-S   | Spacer M12 x 1.75 x 64 Rnd. Stil.                |
| N801179-S   | Screw - Hex Flange Serrated M10 x 1.50 x 25.0                     | N802153-S   | Clip M6 - M5 Open R/Mt                           |
| N801201-S   | Washer - Flat 12.5mm x 75 x 3                                     | N802161-S   | Spacer 5mm x 19 x 1.78 Rd. Rbr.                  |
| N801215-S   | Clip - Push on 25 Long, 23 Wide                                   | N802181-S   | Washer   |
| N801219-S   | Bumper - Conical Hd. 16.0 x 11.0                                  | N802201-S   | Washer 11.2 x 38.1 x 3.4 Conical Sprg.           |
| N801283-S   | Nut M8 x 1.25 U-Long  | N802202-S   | Bushing 11.4 I.D. x 20.3 Rubber                  |
| N801291-S   | Bolt - Hex Flange Head Shoulder M6 x 1.0 x 35.5                   | N802203-S   | Bolt M8 x 1.25 x 212.0 Hex Flange Shoulder       |
| N801295-S   | Stud M8 x 1.25 x 35   | N802204-S   | Bolt M8 x 1.25 x 73.0 Hex Hd. Shld. Plt.         |
| N801309-S   | Nut - Hex Lock M12-1.25   | N802217-S   | Screw & Washer M12 x 1.75 x 115.0 Hex Hd.        |
| N801318-S   | Pin - Push 6.3 x 12.5   | N802218-S   | Screw & Washer M12 x 1.75 x 140.0 Hex Hd.        |
| N801323-S   | Rivet - Semi-Tube Countersunk Head 3.0 x 5.0                      | N802231-S   | Nut & Washer M14 x 2.0 Hex                       |
| N801332-S   | Bolt - Hex Flange Head M12-1.75 x 65.0                            | N802275-S   | Rivet 6.0 x 20.4 Solid Flat Head Shield          |
| N801347-S   | Bolt - Hex Flange Head M10-1.5 x 25.0                             | N802280-S   | Screw M10 x 1.50 x 37 Wafer Hd. Tap              |
| N801379-S   | Nut "U" M10 x 1.5   | N802319-S   | Screw & Washer M6 x 1.0 x 22.5 Hex Hd. Plt.      |
| N801380-S   | Bolt M10 x 1.50 x 32.0 Hex Flange Hd.                             | N802337-S   | Screw Oval Head Self Drilling M4.2 x 1.41 x 25.0 |
| N801393-S   | Nut - Hex Lock M8 x 1.25  | N802445-S   | Pin 6.5 Quick Operating 1/4 Turn Fastener        |
| N801395-S   | Rivet - Blind 3.2 x 8.6   | N802824-S2  | Bolt - Retainer M14 x 2. x 110mm                 |
| N801442-S   | Nut & Washer - Hex M12 x 1.25                                     | W611634-S   | Screw M8 x 1.25 x 16 Hex Washer Tapping          |
| N801500-S   | Screw & Washer - Hex M4.2 x 1.41 x 16                             | W611646-S   | Screw Hex Washer Hd. Tr. M10 x 1.50 x 25.        |
| N801527-S   | Washer - Flat 13mm x 34 x 2.5                                     | W620391-S   | Nut & Washer M4 x .7 Hex                         |
| N801538-S   | Screw - Wafer Head Shoulder Tapping M10 x 1.50 x 31.5             | W623450-S   | Nut - Stamped - Round Push On M3.2 - .25 Thick   |
| N801572-S   | Nut & Retainer Assy. M12 x 1.75 - 93 Long                         | W623485-S   | Nut M12 Bolt Retainer Push On                    |